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## OM protein - protein search, using sw model

Run on: March 13, 2003, 12:33:48 ; Search time 23 Seconds  
(Without alignments)  
263.527 Million cell updates/sec

Title: US-09-674-266A-181  
Perfect score: 1063  
Sequence: 1 RLSCAGTLLSSGPHPSRLT.....DTALLDNMKALKLTTEL 206

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Listing first 45 summaries

## Database :

1: Issued\_patents\_AA: \*  
2: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep: \*  
3: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep: \*  
5: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep: \*  
6: /cgn2\_6/ptodata/1/1aa/PCtUS.COMB.pep: \*  
7: /cgn2\_6/ptodata/1/1aa/Backfilest1.pep: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	899	84.6	175	US-08-916-576B-2	Sequence 2, Appli
2	899	84.6	175	US-09-247-155-106	Sequence 106, App
3	609.5	57.3	170	US-08-916-576B-8	Sequence 8, Appli
4	605	56.9	131	US-09-247-155-114	Sequence 174, App
5	555	52.2	166	US-08-916-576B-6	Sequence 6, Appli
6	448	42.1	183	US-08-916-576B-7	Sequence 7, Appli
7	222	20.9	172	US-08-916-576B-4	Sequence 4, Appli
8	81.5	7.7	901	US-08-884-681-5	Sequence 5, Appli
9	81.5	7.7	901	US-09-258-643-5	Sequence 5, Appli
10	81.5	7.7	968	US-08-560-005-7	Sequence 7, Appli
11	81.5	7.7	968	US-09-418-540-7	Sequence 7, Appli
12	78	7.3	129	US-09-534-638-5	Sequence 5, Appli
13	78	7.3	453	US-09-013-881-5	Sequence 5, Appli
14	78	7.3	1160	PCT-US92-05401-4	Sequence 4, Appli
15	77	7.2	652	US-08-313-185-53	Sequence 53, Appli
16	77	7.2	652	US-08-459-499-17	Sequence 17, Appli
17	77	7.2	652	US-09-082-614A-53	Sequence 53, Appli
18	74	7.0	264	US-09-053-197A-8	Sequence 8, Appli
19	74	7.0	264	US-09-085-761A-8	Sequence 8, Appli
20	71.5	6.7	352	US-08-921-887-52	Sequence 52, Appli
21	71.5	6.7	382	US-09-134-001C-3765	Sequence 3765, Ap
22	71	6.7	529	US-08-821-984-6	Sequence 6, Appli
23	71	6.7	529	US-08-821-984-8	Sequence 8, Appli
24	71	6.7	529	US-09-323-749-6	Sequence 6, Appli
25	71	6.7	529	US-09-329-749-8	Sequence 8, Appli
26	70.5	6.6	481	US-08-186-811-2	Sequence 2, Appli
27	70.5	6.6	481	US-08-311-611A-98	Sequence 98, Appli

28	70.5	6.6	481	1	US-08-372-783-98	Sequence 98, Appli
29	70.5	6.6	481	1	US-08-372-105-98	Sequence 98, Appli
30	70.5	6.6	481	1	US-08-306-473A-98	Sequence 98, Appli
31	70.5	6.6	481	1	US-08-261-660A-4	Sequence 4, Appli
32	70.5	6.6	481	1	US-08-209-762-98	Sequence 98, Appli
33	70.5	6.6	481	1	US-08-473-344-98	Sequence 98, Appli
34	70.5	6.6	481	1	US-08-274-303-6	Sequence 6, Appli
35	70.5	6.6	481	1	US-08-377-391A-2	Sequence 2, Appli
36	70.5	6.6	481	2	US-08-485-445A-98	Sequence 98, Appli
37	70.5	6.6	481	2	US-08-779-400-2	Sequence 2, Appli
38	70.5	6.6	481	2	US-08-955-660-2	Sequence 2, Appli
39	70.5	6.6	481	3	US-09-119-263-98	Sequence 98, Appli
40	70.5	6.6	481	4	US-08-657-162-98	Sequence 98, Appli
41	70.5	6.6	481	4	US-09-224-480-98	Sequence 98, Appli
42	70.5	6.6	481	4	US-09-093-539-98	Sequence 98, Appli
43	70.5	6.6	481	4	US-09-146-620-2	Sequence 2, Appli
44	70.5	6.6	481	4	US-09-395-453-2	Sequence 2, Appli
45	70.5	6.6	481	4	US-09-280-909A-4	Sequence 4, Appli

## ALIGNMENTS

RESULT 1  
US-08-916-576B-2  
; Sequence 2, Application US/08916576B  
; Patent No. 6171816  
; GENERAL INFORMATION:  
; APPLICANT: YU, GUO-LIANG  
; APPLICANT: DILLON, PATRICK J.  
; APPLICANT: EBER, REINHARD  
; APPLICANT: ENDRESS, GREGORY A.  
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
; NUMBER OF SEQUENCES: 45  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVENUE, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: US  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/916,576B  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/024,347  
; FILING DATE: 23-AUG-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: STEFFE, ERIC K.  
; REGISTRATION NUMBER: 36,688  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 371-2600  
; TELEFAX: (202) 371-2540  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 175 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-916-576B-2  
Query Match 84.6%; Score 899; DB 4; Length 175;  
Best Local Similarity 100.0%; Pred.No. 1.2e-95;  
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 32 MKETPSATLLVALSYTLARDITVYKPGAKKDTKDSRPLKPTLSNGWGDQLMTWTYEE 91

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Db 1 MEKIPVSAFLVLVALSTYLARDTVKPGAKKDTKDSRPKLPQTLSRGWDQDQIMTQTYEE 60
OY 92 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOQVLLNLVYETDQKHLSP 151
Db 61 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOQVLLNLVYETDQKHLSP 120
OY 152 DGOVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKNKALKLKTTEL 206
Db 121 DGOVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKNKALKLKTTEL 175

RESULT 2
US-09-247-155-106
; Sequence 106, Application US/09247155A
; Patent No. 6312922
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET.021A
; CURRENT APPLICATION NUMBER: US/09/247,155A
; EARLIER FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/074,121
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/081,563
; EARLIER FILING DATE: 1998-04-13
; EARLIER APPLICATION NUMBER: 60/096,116
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/099,273
; EARLIER FILING DATE: 1998-10-04
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO 106
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20..-1
US-09-247-155-106

Query Match 84.6% Score 899; DB 4; Length 175;
Best Local Similarity 100.0%; Pred. No. 1.2e-95;
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 32 MEKIPVSAFLVLVALSTYLARDTVKPGAKKDTKDSRPKLPQTLSRGWDQDQIMTQTYEE 91
Db 1 MEKIPVSAFLVLVALSTYLARDTVKPGAKKDTKDSRPKLPQTLSRGWDQDQIMTQTYEE 60
OY 92 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOQVLLNLVYETDQKHLSP 151
Db 61 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOQVLLNLVYETDQKHLSP 120
OY 152 DGOVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKNKALKLKTTEL 206
Db 121 DGOVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKNKALKLKTTEL 175

RESULT 3
US-08-916-576b-8
; Sequence 8, Application US/08916576b
; Patent No. 6171816
; GENERAL INFORMATION:
; APPLICANT: YU, GUO-LIANG
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: EBNER, REINHARD
; APPLICANT: ENDRESS, GREGORY A.
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
```

```
; STREET: 1100 NEW YORK AVENUE, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: US
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,576b
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/024,347
; FILING DATE: 23-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: STERNE, ERIC K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0500001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 170 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-916-576b-8
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Query Match 57.3% Score 609.5; DB 4; Length 170;
Best Local Similarity 71.3%; Pred. No. 2.5e-62;
Matches 122; Conservative 14; Mismatches 26; Indels 9; Gaps 2;

OY 37 VSAFLVLVALSTYLARDTVKPGAKKDTKDSRP-KLPQTLSRGWDQDQIMTQTYEEALYK 95
Db 7 LGACLLVALSXXLA-----XXXKGDQXRPKPGPQTLSRGWDQXIXWQTYEEGLXK 58
OY 96 SKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOQVLLNLVYETDQKHLSPDQY 155
Db 59 AXSKSKPMLTIHHLDECPYSOALKKVAENKEIOKLAQFVLLNLVYETDQKHLSPDQY 118
OY 156 VPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKNKALKLKTTEL 206
Db 119 VPRIMEVDPSTLVTRADITGRYGRNRLVAYEPADXPPLIXNMKNKALKLKTTEL 169

RESULT 4
US-09-247-155-174
; Sequence 174, Application US/09247155A
; Patent No. 6312922
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET.021A
; CURRENT APPLICATION NUMBER: US/09/247,155A
; EARLIER FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/074,121
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/081,563
; EARLIER FILING DATE: 1998-04-13
; EARLIER APPLICATION NUMBER: 60/096,116
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/099,273
; EARLIER FILING DATE: 1998-10-04
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO 174
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LENGTH: 131  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: -20...-1  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 40,41,43,60,70,76,82,86,105,107  
OTHER INFORMATION: Xaa = any one of the twenty amino acids  
US-09-247-15-174

Query Match  
Best Local Similarity 92.9%; Pred. No. 5,6e-62;  
Matches 117; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 32 MEKIPVSAFLLVSTLTARDTTVPKAKKDKDSRPKLPTQLSRGWDQLMTQTYEE 91  
DB 1 MEKIPVSAFLLVSTLTARDTTVPKAKKDKDSRPKLPTQLSRGWDQLMTQTYEX 60  
QY 92 ALYKSTSKPRLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHLSP 151  
DB 61 XLKSKTSKPLMIHHHLDXCPHSQALKVFAENKXIQLKLAQFVXLNLVYETTDKHLSP 120  
QY 152 DGOYVP 157  
DB 121 DGOYXP 126

## RESULT 5

US-08-916-576B-6  
Sequence 6, Application US/08916576B

PATENT NO. 6171816  
GENERAL INFORMATION:  
APPLICANT: YU, GUO-LIANG  
APPLICANT: DILLON, PATRICK J.  
APPLICANT: EBNER, REINHARD  
APPLICANT: ENDRESS, GREGORY A.  
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVENUE, SUITE 600  
CITY: WASHINGTON  
STATE: DC

COUNTRY: US  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/916,576B  
FILING DATE:

CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/024,347  
FILING DATE: 23-AUG-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488,0500001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ. ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 166 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-916-576B-6

Query Match  
Best Local Similarity 52.2%; Score 555; DB 4; Length 166;  
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

QY 41 LLVVALSYTLARDTTVPKAKKDKDSRPKLPTQLSRGWDQLMTQTYEALYKSTSN 100  
DB 11 LLVTVSSNLA--IAIK-----KEKR--PQLTSLRGWDDITWQTYEGGLFYAQSK 59  
QY 101 KPLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHLSPDGOYVPRI 159  
DB 60 KPLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHLSPDGOYVPRI 119  
QY 160 MFVDPSTLVTRADITGRYSNRLYAEPADTALLDNMKAKLKLTEL 206  
DB 120 MFVDPSTLVTRADITGRYSNRLYAEPADTALLDNMKAKLKLTEL 166

## RESULT 6

US-08-916-576B-7  
Sequence 7, Application US/08916576B

PATENT NO. 6171816  
GENERAL INFORMATION:  
APPLICANT: YU, GUO-LIANG  
APPLICANT: DILLON, PATRICK J.  
APPLICANT: EBNER, REINHARD  
APPLICANT: ENDRESS, GREGORY A.  
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVENUE, SUITE 600  
CITY: WASHINGTON  
STATE: DC

COUNTRY: US  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/916,576B  
FILING DATE:

CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/024,347  
FILING DATE: 23-AUG-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488,0500001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ. ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 183 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: linear  
MOLECULE TYPE: peptide

US-08-916-576B-7

Query Match  
Best Local Similarity 42.1%; Score 448; DB 4; Length 183;  
Matches 88; Conservative 29; Mismatches 51; Indels 10; Gaps 3;

QY 39 AFLVLLVSTLTARDTTVPK---GAKDKTDSRPKL-----QTLSRGWDQLMTQTY 89  
DB 6 SLVCLVLLSALGSAVLKPKKQAGTDTDTQDPAPDKTKGLTKLDRGWGESIEWQTY 65  
QY 90 EALYKSTSKPRLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHL 148

Db 66 E6GLAKAENNNPILVHHLEDCPYSIAKKAFAVADRNAOKLAODEFIMLVHPVADEN 125  
QY 149 LSPDQVYPRIMEFVPSLTVRADITGRYSNRLYAEAPADTALLDMMKALKLLKTEL 206  
Db 126 OSPDCHYPRVIFIDPSLTVRSDLRGYNKMYADADDIPELITNMKAKSFKTEL 183

## RESULT 7

US-08-916-576B-4

Sequence 4, Application US/08916576B

Patent No. 6171816

GENERAL INFORMATION:

APPLICANT: YU, GUO-LIANG

APPLICANT: DILLON, PATRICK J.

APPLICANT: EBNER, REINHARD

APPLICANT: ENDRESS, GREGORY A.

TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS

NUMBER OF SEQUENCES: 45

CORRESPONDENCE ADDRESS:

ADDRESSEE: STERNE, KESSLER, GOLDSTEIN &amp; FOX, P.L.L.C.

STREET: 1100 NEW YORK AVENUE, SUITE 600

CITY: WASHINGTON

STATE: DC

COUNTRY: US

ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/916,576B

FILING DATE:

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/024,347

FILING DATE: 23-AUG-1996

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488.0500001

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 371-2600

TELEFAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 172 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-916-576B-4

Query Match 20.9%; Score 222; DB 4; Length 172;  
Best Local Similarity 34.2%; Pred. No. 1,1e-17;  
Matches 54; Conservative 26; Mismatches 56; Indels 22; Gaps 3;

QY 66 DSRPLPOT-----LSRCMGDOLIMTQTYEALYKTSNKPMLII 106  
Db 2 ETRPRLGATGLGFSFLLLVYSSDGHNGLGKGFSDHIIH-KLLEDGKKAAASGLPLMYI 60  
QY 107 HHLDECPHSQALKKVFANKETIOKLAQFVLNL--VYETTDKHLSPDQVYPRIMEFVP 164  
Db 61 IHSWCGACKALKPKFAESTETSELSHNFVNVNLEDEDEPDESPDGYIPRILFLDP 120  
QY 165 SUTVADITGRYSNRLYAEAPADTALLDMMKALKLL 202  
Db 121 SGKVPHEIINENGNSPKYFYVASQVQAKMEAOERL 158

## RESULT 8

US-08-884-681-5

Sequence 5, Application US/08884681

Patent No. 5955338  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Lal, Preeti  
APPLICANT: Corley, Neil C.  
APPLICANT: Shah, Putvi  
TITLE OF INVENTION: NEW HUMAN PHOSPHATIDYLINOSITOL  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/884,681

FILING DATE: Filed Herewith

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0334 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 901 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: GenBank

CLONE: 1420920

US-08-884-681-5

Query Match 7.7%; Score 81.5; DB 2; Length 901;  
Best Local Similarity 23.7%; Pred. No. 1.8;  
Matches 45; Conservative 32; Mismatches 46; Indels 67; Gaps 13;

QY 55 TYKPGAKKDTKDSRPR--LPQTLRSGWDOLIMTQTYEAL-YKS---KTS-NKPLMII 106  
Db 476 TYKYDSKTDWDSGKCRVP-----AWCDRIIRGTNNVQNLVRSHEMLKTSQHKVSAL 530  
QY 107 HHL-----DECPHSQALKKVFANKETIOKLAE-----QFVLNLVYETTDK-- 147  
Db 531 FHIGYKQVDE---RRYRVFEDSVRIIMDMENDFLPSLELSRREVFENVKFRQLOK 586  
QY 148 -HLSPDQV-----YVPRIM-----FVPSLTVRADITGRYSNRLYAE 184  
Db 587 FQISNNGVQPCFHSFTPKLNDQCYCKPMLRABFEYLEPNETV--DIS-----LDYV 638  
QY 185 PADTALLDN 194  
Db 639 SKDSVTILNS 648

## RESULT 9

US-09-258-643-5

Sequence 5, Application US/09258643

Patent No. 6277373

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Lal, Preeti

APPLICANT: Corley, Neil C.

```

ADDRESS: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DO5
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/560,005
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dow, Karen B.
REGISTRATION NUMBER: 29,684
REFERENCE/DOCKET NUMBER: 2307K-0624000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 968 amino acids
TYPE: amino acid
TOPOLOGY: Linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Region
LOCATION: 1..968
OTHER INFORMATION: /note= "ocr1"

US-08-560-005-7

Query Match      7.7%   Score 81.5; DB 3; Length 968;
Best Local Similarity 23.7%; Pred. No. 2;
Matches 45; Conservative 32; Mismatches 46; Indels 67; Gaps 13;

QY    55 TVKGAKKDITDSDRPK--LPQTLSKGMGDOLIMTGYEAL-YKS---KTS-NKPLMI I 106
       | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :
Db    551 TYKDSKDRMDSSGCKVP-----AWCDRLMRGTNNVNLNRYRHMILKTSDHKFPAL 605

QY    107 HHL-----DECRHSOALKKVFAENKEIOKLAE-----QFVLNLVYEFTDK-- 147
        | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db    606 FHIGKKVDE----RRYKVFEDSVIRIMDRMENDELFLSLELSRRFEVENAFROLOK 661

QY    148 -HLSPDQG-----YVRPRLM-----FVDPSLTVRADITGRSNLWAYE 184
       | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db    662 FQISNNGGVPCHFSTIFPLANDSQYCKPMLRAPEFGYLEPMETV--DIS-----LDYIV 713

QY    185 PADTALLDDN 194
       | :| :| :
Db    714 SKDSVTLLNS 723

RESULT 11
US-09-418-540-7
Sequence 7, Application US/09418540
Patent No. 6296848
GENERAL INFORMATION:
APPLICANT: Pot, David A.
APPLICANT: Williams, Lewis T.
APPLICANT: Jefferson, Anne Bennett
APPLICANT: Majerus, Philip W.
TITLE OF INVENTION: No. 6296848el Grb2 Associating Protein and Nucleic
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA

```



Db 187 LRKGGFYSSQKVTNPULRIISLNTNLVYGPINMTLTKTDP-----ANOFE 231  
 QY 85 WQTYEALYKSKTSKMPILIIH--LDECPHSO---ALKKVAE-----NKEIOKLAE 133  
 Db 232 W--LESTLNSOONKEKYIIAHVPGYLPSSONITAMREYNEKLIIDIFOKYSDVIAG 288  
 QY 134 QF---VLNLVYETTTKHLSPDQYVPRIMEVDPSSLTVRADITGRYSN---RLYAVEPA 186  
 Db 289 QFVGHHRDSIMVLSDKKGPVNS-----LFVAPATVPKASVLEKOTNNNGIRLFOYDPR 343  
 QY 187 DTALLDNNKALKLKTTEL 206  
 Db 344 DYK-LDDMLQYVNLTEANL 362

RESULT 14  
 PCT-US92-05401-4  
 ; Sequence 4, Application PC/7US9205401  
 ; GENERAL INFORMATION:

APPLICANT: Lemischka, Ihor R.  
 TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL  
 NUMBER OF SEQUENCES: 6  
 CORRESPONDENCE ADDRESSES:  
 ADDRESS: IMCLONE SYSTEMS INCORPORATED  
 STREET: 180 VARICK STREET  
 CITY: NEW YORK  
 STATE: NEW YORK  
 COUNTRY: U.S.A.  
 ZIP: 10014

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US92/05401  
 FILING DATE: 19920626  
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
 NAME: Felt, Irving N.  
 REGISTRATION NUMBER: 28,601  
 REFERENCE/DOCKET NUMBER: LEM-3-PPTPT  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-645-1405  
 TELEFAX: 212-645-2054

INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1160 amino acids  
 TYPE: AMINO ACID  
 TOPOLOGY: linear

MOLECULE TYPE: protein  
 PCT-US92-05401-4

Query Match 7.3%; Score 78; DB 5; Length 1160;  
 Best Local Similarity 28.4%; Pred. No. 6.7;

Matches 27; Conservative 17; Mismatches 35; Indels 16; Gaps 4;

QY 68 RPLPOTLSRGMDQLIMTQTYEALYKSKTSKMPILIIHLLDPCPSOALKKVAEAKKE 127  
 Db 952 RPSFP-NLTSFLGQL--ADAEEAMYN-----VDGRVSECPHTYQNRREFSNEMD 999  
 QY 128 IQKLAEOQVFL---LNLVETTTDKHLSPDQYVPR 158  
 Db 1000 LGLLSPQAOVEDSRNMLVLRITSSLHLSTLTCRLPK 1034

RESULT 15  
 US-08-313-185-53  
 ; Sequence 53, Application US/08313185  
 ; Patent No. 5851763  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Heym, Beate

APPLICANT: Cole, Stewart  
 APPLICANT: Young, Douglas  
 APPLICANT: Zhang, Ying  
 APPLICANT: Honore, Nadine  
 APPLICANT: Telenti, Amalio  
 APPLICANT: Bodmer, Thomas  
 TITLE OF INVENTION: Rapid Detection of Antibiotic Resistance  
 NUMBER OF SEQUENCES: 66  
 CORRESPONDENCE ADDRESSES:  
 ADDRESS: Finnegan, Henderson, Farabow, Garrett &  
 ADDRESS: Dunner  
 STREET: 1300 I Street, N.W.  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: USA  
 ZIP: 20005-3315

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/313,185  
 FILING DATE: 12-OCT-1994  
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
 NAME: Meyers, Kenneth J.  
 REGISTRATION NUMBER: 25,146  
 REFERENCE/DOCKET NUMBER: 02356, 0068-00000  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 408-4000  
 TELEFAX: (202) 408-4400

INFORMATION FOR SEQ ID NO: 53:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 652 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-313-185-53

Query Match 7.2%; Score 77; DB 2; Length 652;  
 Best Local Similarity 20.7%; Pred. No. 3.7;  
 Matches 49; Conservative 32; Mismatches 84; Indels 72; Gaps 11;

QY 12 GPHSRRLTQGRWVRKSRVAMEKIPVSAFLLLVALSYLARDTVKPGAKKDTKDSRPKL 71  
 Db 211 GPNHS-PLSAAALIRTRFMGNDEETVA---LINGHTLTKTHGASHPASHPPEAPAPIE 266  
 QY 72 PQTLSRGMD-----QLIMTQT-----YEALYKS----- 96  
 Db 267 AQGL-GWASSYSGVGADAITTSGEYVWQTPQWNNFEENLFYEMVLTKSPAGAQAQEAADV 324  
 QY 97 -----KTSNKLMIITHHLLDEC-PSOALKKVAEAKKELOKLAEOQVLLNYET 144  
 Db 325 APDIIPPPDPSKKRKPMLVTDLLRPDPEYKISRRLNDPEEAPARAW-----FKL 378  
 QY 145 TDKHLSPD---GOQVPR-IMFVDPSSLTVRADI-----TGRYSNKLVAEAPADT 188  
 Db 379 THRDMGKRKRYIGPEVPRKEDLWQDPPOYPPTEDILKKAIAASGLVSLVSMASAST 435

Search completed: March 13, 2003, 13:28:09  
 Job time : 27 secs





GenCore version 5.1.4\_p5\_4578  
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OM protein - protein search, using sw model

Run on: March 13, 2003, 12:52:08 ; Search time 25 seconds

(without alignments)  
379.799 Million cell updates/sec

Title: US-09-674-266a-181

Perfect score: 1063  
Sequence: 1 RUSCAGTISGSGPHSRRLT.....DTALLDNKKAKLKLTTEL 206

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 199416 seqs, 46092074 residues

Total number of hits satisfying chosen parameters: 199416

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08  
Maximum Match 1008

Listing first 45 summaries

Database :

Published Applications-AA:\*  
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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:\*  
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8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep:\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*  
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12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep:\*  
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14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	899	84.6	175	9	US-10-078-337-2
2	889	84.6	175	10	US-09-792-439-2
3	830	78.1	175	9	US-10-227-884-74
4	830	78.1	175	9	US-10-230-163-74
5	830	78.1	175	9	US-10-218-631-74
6	830	78.1	175	9	US-10-230-338-74
7	609.5	57.3	170	9	US-10-078-337-8
8	555	52.2	166	9	US-10-066-500-54
9	555	52.2	166	9	US-10-078-337-6
10	555	52.2	166	9	US-10-227-884-116
11	555	52.2	166	9	US-10-002-796-54
12	555	52.2	166	9	US-10-066-273-54
13	555	52.2	166	9	US-10-066-494-54
14	555	52.2	166	9	US-10-230-163-116
15	555	52.2	166	9	US-10-066-269-54
16	555	52.2	166	9	US-10-066-193-54
17	555	52.2	166	9	US-10-066-211-54
18	555	52.2	166	9	US-10-218-631-116
19	555	52.2	166	9	US-10-230-338-116

20	555	52.2	166	10	US-09-956-751-1	Sequence 1, Appli
21	555	52.2	168	9	US-10-025-380-631	Sequence 631, App
22	555	52.2	168	10	US-09-922-217-631	Sequence 631, App
23	555	52.2	168	10	US-09-833-263-631	Sequence 4, Appli
24	448	42.1	183	9	US-10-078-337-7	Sequence 7, Appli
25	222	20.9	172	9	US-10-078-337-4	Sequence 194, App
26	222	20.9	172	9	US-10-227-884-194	Sequence 194, App
27	222	20.9	172	9	US-10-230-163-194	Sequence 194, App
28	222	20.9	172	9	US-10-218-631-194	Sequence 194, App
29	222	20.9	172	9	US-10-230-338-194	Sequence 194, App
30	222	20.9	172	10	US-09-954-846-1	Sequence 1, Appli
31	81.5	7.7	901	10	US-09-892-287-5	Sequence 5, Appli
32	81.5	7.7	968	10	US-09-969-528-7	Sequence 7, Appli
33	78	7.3	453	9	US-09-981-353-48	Sequence 48, Appli
34	77	7.2	1049	10	US-09-815-242-10732	Sequence 10732, A
35	71.5	6.7	289	10	US-09-815-242-13244	Sequence 13244, A
36	71.5	6.7	289	10	US-09-815-242-13582	Sequence 13582, A
37	306	7.1	306 <th>9</th> <th>US-10-017-910-7</th> <th>Sequence 7, Appli</th>	9	US-10-017-910-7	Sequence 7, Appli
38	71	6.7	529	10	US-09-849-566-6	Sequence 6, Appli
39	71	6.7	529	10	US-09-849-566-8	Sequence 8, Appli
40	71	6.7	529	10	US-09-907-859-6	Sequence 6, Appli
41	71	6.7	529	10	US-09-907-859-8	Sequence 8, Appli
42	70.5	6.6	481	10	US-09-994-185-2	Sequence 2, Appli
43	70.5	6.6	481	12	US-10-004-139-2	Sequence 2, Appli
44	70.5	6.6	917	9	US-10-001-835-189	Sequence 189, App
45	70.5	6.6	1252	9	US-10-047-542-89	Sequence 89, Appli

#### ALIGNMENTS

RESULT 1  
US-10-078-337-2  
; Sequence 2, Application US/10078337  
; Publication No. US20030023068A1  
GENERAL INFORMATION:  
APPLICANT: YU, GUO-LIANG  
DILLON, PATRICK J.  
EBNER, REINHARD  
ENDRESS, GREGORY A.  
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESSES:  
ADDRESS: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVENUE, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: US  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/078.337  
FILING DATE: 21-Feb-2002  
CLASSIFICATION: <Unknown>  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: 08/916,576  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0500001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 175 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2  
US-10-078-337-2

Query Match 84.6%; Score 899; DB 9; Length 175;  
Best Local Similarity 100.0%; Pred. No. 2.6e-86;  
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 32 MEKIPVSAFLLLVALSYTLARDTTVPGAKKDTKDSRPRLPQTLSRGWDQILMTOTYEE 91  
DB 1 MEKIPVSAFLLLVALSYTLARDTTVPGAKKDTKDSRPRLPQTLSRGWDQILMTOTYEE 60  
QY 92 ALYKSTSKNPKLMIITHHDECPHSQALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 151  
DB 61 ALYKSTSKNPKLMIITHHDECPHSQALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 120  
QY 152 DQGYVPRIMFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 206  
DB 121 DQGYVPRIMFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 175

## RESULT 2

US-09-792-439-2  
Sequence 2, Application US/09792439  
Patent No. US2002011303A1

GENERAL INFORMATION:  
APPLICANT: Boyd, Robert Simon  
APPLICANT: Stamps, Alasdair Craig  
APPLICANT: Terret, Jonathan Alexander  
APPLICANT: Tyson, Kerry Louise  
TITLE OF INVENTION: Diagnostic and Therapeutic Methods  
FILE REFERENCE: 2543-1-005N  
CURRENT APPLICATION NUMBER: US/09/792,439  
CURRENT FILING DATE: 2001-02-23  
PRIOR APPLICATION NUMBER: GB 0004576.5  
PRIOR FILING DATE: 2000-02-25  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 175  
TYPE: PRT  
ORGANISM: human  
US-09-792-439-2

Query Match 84.6%; Score 899; DB 10; Length 175;  
Best Local Similarity 100.0%; Pred. No. 2.6e-86;  
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 32 MEKIPVSAFLLLVALSYTLARDTTVPGAKKDTKDSRPRLPQTLSRGWDQILMTOTYEE 91  
DB 1 MEKIPVSAFLLLVALSYTLARDTTVPGAKKDTKDSRPRLPQTLSRGWDQILMTOTYEE 60  
QY 92 ALYKSTSKNPKLMIITHHDECPHSQALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 151  
DB 61 ALYKSTSKNPKLMIITHHDECPHSQALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 120  
QY 152 DQGYVPRIMFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 206  
DB 121 DQGYVPRIMFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 175

## RESULT 3

US-10-227-884-74  
Sequence 74, Application US/10227884  
Publication No. US20030027988A1

GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Desnoyers, Luc  
APPLICANT: Gerritsen, Maay  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gutney, Austin L.

APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Philippe F.  
APPLICANT: Watanabe, Colin L.  
APPLICANT: Wood, William T.  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3530PIC79  
CURRENT APPLICATION NUMBER: US/10/227,884  
CURRENT FILING DATE: 2002-08-26  
PRIOR APPLICATION NUMBER: 10/119,480  
PRIOR FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 60/059113  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/062287  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/063549  
PRIOR FILING DATE: 1997-10-28  
PRIOR APPLICATION NUMBER: 60/064103  
PRIOR FILING DATE: 1997-10-31  
PRIOR APPLICATION NUMBER: 60/069873  
PRIOR FILING DATE: 1997-12-17  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/079294  
PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079728  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/081819  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081955  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/082804  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/084441  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/085323  
PRIOR FILING DATE: 1998-05-13  
PRIOR APPLICATION NUMBER: 60/085579  
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PRIOR APPLICATION NUMBER: 60/086392  
PRIOR FILING DATE: 1998-05-22  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
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PRIOR FILING DATE: 1998-06-18  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
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PRIOR FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: 60/095318  
PRIOR FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: 60/09516  
PRIOR FILING DATE: 1998-08-10  
PRIOR APPLICATION NUMBER: 60/096146  
PRIOR FILING DATE: 1998-08-11  
PRIOR APPLICATION NUMBER: 60/096791  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: 60/097986  
PRIOR FILING DATE: 1998-08-26  
PRIOR APPLICATION NUMBER: 60/098544  
PRIOR FILING DATE: 1998-08-31

;; PRIOR APPLICATION NUMBER: 60/099596  
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;; PRIOR APPLICATION NUMBER: 60/126773

;; PRIOR FILING DATE: 1999-03-29  
;; PRIOR APPLICATION NUMBER: 60/127887  
;; PRIOR FILING DATE: 1999-04-05  
;; PRIOR APPLICATION NUMBER: 60/130232  
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;; PRIOR APPLICATION NUMBER: 60/146963  
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;; PRIOR FILING DATE: 1999-11-16  
;; PRIOR APPLICATION NUMBER: 60/169445  
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;; PRIOR APPLICATION NUMBER: 60/169495  
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Query Match 78.1%; Score 830; DB 9; Length 175;  
Best Local Similarity 91.4%; Pred. No. 4; 1e-79;  
Matches 160; Conservative 8; Mismatches 7; Indels 0; Gaps 0;

QY 32 MEKIPVSAPLLVALSYTLARORTTVKPGAKKDKDSRPKIPOTLSRGWGQDLITWTYYEE 91  
DB 1 MEKFSVSAILLVAISGTAKDTTVKSGSKDKDPSPKIPOTLSRGWGQDLITWTYYEE 60  
QY 92 ALYKSKTSNKPMLIIHHLDPCPHSOALKKFAENKEIOKLAEOFVLLNLVYETTDKHLSP 151  
DB 61 ALYKSKTSNRPMLVHHLDPCPHSOALKKFAENKEIOKLAEOFVLLNLVYETTDKHLSP 120  
QY 152 DGQYVPRIMEFVDSFLVRADITGRYSNRLIAYEPADTALLDNMKKALKILKTEL 206  
DB 121 DGQYVPRIVEFVDSFLVRADITGRYSNRLIAYEPADTALLDNMKKALKILKTEL 175

RESULT 4  
US-10-230-163-74  
; Sequence 74, Application US/10230163  
; Publication No. US20030036635A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Gerdtisen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Philippe F.  
APPLICANT: Watanabe, Colin L.  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3530PIC96  
CURRENT APPLICATION NUMBER: US/10/230.163  
CURRENT FILING DATE: 2002-08-28  
PRIOR APPLICATION NUMBER: 10/119,480  
PRIOR FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 60/059113  
PRIOR FILING DATE: 1997-09-17  
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PRIOR FILING DATE: 1998-11-17  
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PRIOR APPLICATION NUMBER: 60/119549  
PRIOR FILING DATE: 1999-02-10  
PRIOR APPLICATION NUMBER: 60/123618  
PRIOR FILING DATE: 1999-03-10  
PRIOR APPLICATION NUMBER: 60/125259  
PRIOR FILING DATE: 1999-03-19  
PRIOR APPLICATION NUMBER: 60/125775  
PRIOR FILING DATE: 1999-03-23



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Query Match 78.1% Score 830 DB 9: Length 175;
Best Local Similarity 91.4% Pred. No. 4.1e-79;
Matches 160: Conservative 8; Mismatches 7; Indels 0; Gaps 0.

OY 32 MEKIPVSAFLLLVALLSYLARDTTPVKPGAKDKDPSRPLPOTLSRGMDOLIMTQYEE 91
    1 MEKFSVSAILLLVAILISGTLAKDQTVKSSGSKDPKDSRPLPOTLSRGMDOLIMTQYEE 60
Db

OY 92 ALYKSTSNKRLMIIHHLDCEPHSALKKVFENKEIQKLAQFVLNLVETTDKHLSP 151
    1 ALYKSTSNKRLMIIHHLDCEPHSALKKVFENKEIQKLAQFVLNLVETTDKHLSP 120
Db

OY 61 ALYKSTSNKRLMIIHHLDCEPHSALKKVFENKEIQKLAQFVLNLVETTDKHLSP 120
    1 ALYKSTSNKRLMIIHHLDCEPHSALKKVFENKEIQKLAQFVLNLVETTDKHLSP 120
Db

OY 152 DGOVPRPRIMEFDPSTLVPRADITGRYSNRLYAEAPDATALLDNMKALKLTEL 206
    1 DGOVPRPRIMEFDPSTLVPRADITGRYSNRLYAEAPDATALLDNMKALKLTEL 175
Db

RESULT 7
US-10-078-337-8
: Sequence 8, Application US/10078337
: Publication No. US20030023068A1

GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
DILLO, PATRICK J.
EBNER, REINHARD
EDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESSES:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

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Query Match      57.3%: Score 609.5; DB 9; Length 170;
Best Local Similarity 71.3%: Pred. No. 4,1e-56;
Matches 122: Conservative 14; Mismatches 26; Indels 9; Gaps 2.

QY      37  VSAFLLLVALSVTLARDDTVKPGAKKDKSRP-KLPQTLSSRGWDOLIMTQYEEALYK 95
Db      7  LGACLLLVALLSXLA-----XXXKKDKRPPIGPOTLSSRGWDXIXWQYEEGLAK 58
QY      96  SKTSNKPRLMIITHHIDEGPSQALKKVFANEKEIOKLAQOFVLNLYETTDKHLSPDQY 155
Db      59  AXXSNKPLMTVHHLEDCCYSQALKKVFANEKEIOELAONFWLNLVHETTDENLSPDQY 118
QY      156  VPRIMFVDPSTLRADITGRYSNRLYAEPDATTALLDNMKKALKLTTEL 206
Db      119  VPRIMFVDPSTLRADIXGRYGNRLYAEPDXDPXLLIXNMKKALKLTTEL 169

RESULT 8
US-10-066-500-54
: Sequence 54, Application US/10066500
: Patent No. US2002017165A1
: GENERAL INFORMATION:
:
: APPLICANT: Avi J. Ashkenazi
: APPLICANT: Kevin P. Baker
: APPLICANT: David A. Botsstein
: APPLICANT: Luc Desnoyers
: APPLICANT: Dan L. Eaton
: APPLICANT: Napoleone Ferrara
: APPLICANT: Sherman Fong
: APPLICANT: Wei-Qiang Gao
: APPLICANT: Hanspeter Gerber
: APPLICANT: Mary E. Gortlisen
: APPLICANT: Audrey Goddard
: APPLICANT: Paul J. Godowski
: APPLICANT: Austin L. Gurney
: APPLICANT: Ivar J. Kljavin
: APPLICANT: Jennie P. Malcher
: APPLICANT: Mary A. Napier
: APPLICANT: James Pan
: APPLICANT: Nicholas F. Paoni
: APPLICANT: Margaret Ann Roy
: APPLICANT: Timothy A. Stewart
: APPLICANT: Daniel Tumas
: APPLICANT: Colin K. Watanabe
: APPLICANT: P. Mickey Williams
: APPLICANT: William I. Wood
: APPLICANT: Zemin Zang
:
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3130R1C7

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;; CURRENT FILING DATE: 2002-02-01  
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PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 52.2%; Score 555; DB 9; Length 166;  
Best Local Similarity 64.7%; Pred. No. 2e-50;  
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

OY 41 LLLVALSTYLRADTVKPGAKKDTKDSRPKLPQTLRSGMGDOLIMTQYEEALYKSTSN 100  
DB 11 LLLVTSSNLA--IAIK-----KEKRP--PQTLRSGMGDDITWQYEEGLFYAKSK 59  
OY 101 KPLMIHHLDECPHSQLAKVFAENKEIOKLAE-QVLLNLVYETTDKHLSPDGOYVRI 159  
DB 60 KPLMWIHLEDCQYSQLAKVFAENKEIOEMQNKFIMLNHETTDKHLSPDGOYVRI 119  
OY 160 MEVDSLTVRADITGRYSNRLAYEPADTALLDMKKALKLTEL 206  
DB 120 MEVDSLTVRADITGRYSNRLAYETPERDPLLIENMKKALRLIOSEL 166

RESULT 9  
US-10-078-337-6  
Sequence 6, Application US/10078337  
Publication No. US20030023068A1  
GENERAL INFORMATION:

APPLICANT: YU, GUO-LIANG  
DILLON, PATRICK J.  
EBNER, REINHARD  
ADDRESS, GREGORY A.  
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVENUE, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: US  
ZIP: 20005-3934

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/078,337  
FILING DATE: 21-Feb-2002  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/916,576  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0500001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 166 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-10-078-337-6

Query Match 52.2%; Score 555; DB 9; Length 166;  
Best Local Similarity 64.7%; Pred. No. 2e-50;  
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

OY 41 LLLVALSTYLRADTVKPGAKKDTKDSRPKLPQTLRSGMGDOLIMTQYEEALYKSTSN 100  
DB 11 LLLVTSSNLA--IAIK-----KEKRP--PQTLRSGMGDDITWQYEEGLFYAKSK 59  
OY 101 KPLMIHHLDECPHSQLAKVFAENKEIOKLAE-QVLLNLVYETTDKHLSPDGOYVRI 159  
DB 60 KPLMWIHLEDCQYSQLAKVFAENKEIOEMQNKFIMLNHETTDKHLSPDGOYVRI 119  
OY 160 MEVDSLTVRADITGRYSNRLAYEPADTALLDMKKALKLTEL 206  
DB 120 MEVDSLTVRADITGRYSNRLAYETPERDPLLIENMKKALRLIOSEL 166

RESULT 10  
US-10-227-884-116  
Sequence 116, Application US/10227884  
Publication No. US20030027988A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Desnoyers, Luc  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Philippe F.  
APPLICANT: Watanabe, Colin L.  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3530P1C79  
CURRENT APPLICATION NUMBER: US/10/227,884  
CURRENT FILING DATE: 2002-08-26  
PRIOR APPLICATION NUMBER: 10/119,480  
PRIOR FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 60/059113  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/062287  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/063549  
PRIOR FILING DATE: 1997-10-28  
PRIOR APPLICATION NUMBER: 60/064103  
PRIOR FILING DATE: 1997-10-31  
PRIOR APPLICATION NUMBER: 60/069873  
PRIOR FILING DATE: 1997-12-17  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/079294  
PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079728  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/081819





;; PRIOR FILING DATE: 1999-08-17  
;; PRIOR APPLICATION NUMBER: 60/149638  
;; PRIOR FILING DATE: 1999-08-17  
;; PRIOR APPLICATION NUMBER: 60/151733  
;; PRIOR FILING DATE: 1999-08-31  
;; PRIOR APPLICATION NUMBER: 60/164418  
;; PRIOR FILING DATE: 1999-11-09  
;; PRIOR APPLICATION NUMBER: 60/166361  
;; PRIOR FILING DATE: 1999-11-16  
;; PRIOR APPLICATION NUMBER: 60/169445  
;; PRIOR FILING DATE: 1999-12-07  
;; PRIOR APPLICATION NUMBER: 60/169495  
;; PRIOR FILING DATE: 1999-12-07  
;; PRIOR APPLICATION NUMBER: 60/169835  
Query Match 52.2%; Score 555; DB 9; Length 166;  
Best Local Similarity 64.7%; Pred. No. 2e-50;  
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;  
QY 41 LLLVALSYLTARDTTPKPKARKDTRKSPKLPQLSRGMDQLWTQTYEALYKSTSN 100  
DB 11 LLLVTSSNLA--IAIK-----KEKRP--PQTLSRGMDQITWQTYEEGLFYAKSK 59  
QY 101 KPLMIHLLDCPHSOALKKVFENKEIOKLAE-QFVLLNLVYETTDKHLSPDQGYVRI 159  
DB 60 KPLMIHLLDCPHSOALKKVFENKEIOKLAE-QFVLLNLVYETTDKHLSPDQGYVRI 119  
QY 160 MEVDPSTLVRADITGRYSNRLVAYEPADTALLLDNMKKALKLKTTEL 206  
DB 120 MEVDPSTLVRADITGRYSNRLVAYEPADTALLLDNMKKALKLKTTEL 166  
RESULT 11  
US-10-002-796-54  
; Sequence 54, Application US/10002796  
; Publication No. US20030032057A1  
; GENERAL INFORMATION:  
; APPLICANT: Avi J. Ashkenazi  
; APPLICANT: Kevin P. Baker  
; APPLICANT: David A. Bolstein  
; APPLICANT: Luc Desnoyers  
; APPLICANT: Dan L. Eaton  
; APPLICANT: Napoleone Ferrara  
; APPLICANT: Sherman Fong  
; APPLICANT: Wei-Qiang Gao  
; APPLICANT: Hanspeter Gerber  
; APPLICANT: Mary E. Gerltsen  
; APPLICANT: Audrey Goddard  
; APPLICANT: Paul J. Godowski  
; APPLICANT: Austin L. Gurney  
; APPLICANT: Ivar J. Kijavlin  
; APPLICANT: Jennie P. Mather  
; APPLICANT: Mary A. Napier  
; APPLICANT: James Pan  
; APPLICANT: Nicholas F. Paoni  
; APPLICANT: Margaret Ann Roy  
; APPLICANT: Timothy A. Stewart  
; APPLICANT: Daniel Tumas  
; APPLICANT: Colin K. Watanabe  
; APPLICANT: P. Mickey Williams  
; APPLICANT: William I. Wood  
; APPLICANT: Zemin Zang  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P3130R1C1  
; CURRENT APPLICATION NUMBER: US/10/002.796  
; PRIOR APPLICATION NUMBER: 60/056974  
; PRIOR FILING DATE: 1997-08-26  
; PRIOR APPLICATION NUMBER: 60/059115  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/059263  
; PRIOR FILING DATE: 1997-09-18

;; PRIOR APPLICATION NUMBER: 60/059588  
;; PRIOR FILING DATE: 1997-09-17  
;; PRIOR APPLICATION NUMBER: 60/062285  
;; PRIOR FILING DATE: 1997-10-17  
;; PRIOR APPLICATION NUMBER: 60/062816  
;; PRIOR FILING DATE: 1997-10-24  
;; PRIOR APPLICATION NUMBER: 60/063082  
;; PRIOR FILING DATE: 1997-10-31  
;; PRIOR APPLICATION NUMBER: 60/063329  
;; PRIOR FILING DATE: 1997-10-27  
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;; PRIOR APPLICATION NUMBER: 60/066364  
;; PRIOR FILING DATE: 1997-11-21  
;; PRIOR APPLICATION NUMBER: 60/066840  
;; PRIOR FILING DATE: 1997-11-25  
;; PRIOR APPLICATION NUMBER: 60/069694  
;; PRIOR FILING DATE: 1997-12-16  
;; PRIOR APPLICATION NUMBER: 60/074086  
;; PRIOR FILING DATE: 1998-02-09  
;; PRIOR APPLICATION NUMBER: 60/074092  
;; PRIOR FILING DATE: 1998-02-09  
;; PRIOR APPLICATION NUMBER: 60/079294  
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;; PRIOR APPLICATION NUMBER: 60/081049  
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;; PRIOR APPLICATION NUMBER: 08/933821  
;; PRIOR FILING DATE: 1997-09-19  
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;; PRIOR FILING DATE: 1997-10-29  
;; PRIOR APPLICATION NUMBER: 09/114844  
;; PRIOR FILING DATE: 1998-07-14  
;; PRIOR APPLICATION NUMBER: 09/136801  
;; PRIOR FILING DATE: 1998-08-19  
;; PRIOR APPLICATION NUMBER: 09/136804  
;; PRIOR FILING DATE: 1998-08-19  
;; PRIOR APPLICATION NUMBER: 09/136828  
;; PRIOR FILING DATE: 1998-08-19  
;; PRIOR APPLICATION NUMBER: 09/158342

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PRIORITY APPLICATION NUMBER: PCT/US98/25190
PRIORITY FILING DATE: 1998-11-25
PRIORITY APPLICATION NUMBER: PCT/US99/05028
PRIORITY FILING DATE: 1999-03-08
PRIORITY APPLICATION NUMBER: PCT/US99/12252
PRIORITY FILING DATE: 1999-06-02
PRIORITY APPLICATION NUMBER: PCT/US99/20111
PRIORITY FILING DATE: 1999-09-01
PRIORITY APPLICATION NUMBER: PCT/US99/20594
PRIORITY FILING DATE: 1999-09-08
PRIORITY APPLICATION NUMBER: PCT/US99/21090
PRIORITY FILING DATE: 1999-09-15
PRIORITY APPLICATION NUMBER: PCT/US99/21547
PRIORITY FILING DATE: 1999-09-15
PRIORITY APPLICATION NUMBER: PCT/US99/28301

Query Match 52.2% Score 555; DB 9; Length 166;
Best Local Similarity 64.7%; Pred. No. 2e-50;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

QY 41 LLLAALSTYLRADTTPKPGAKKDTKDSRPRLPOTLSRGMGDLIMTQTYEALYKSTSN 100
Db 11 LLLTVSSNLA--IAIK-----KEKRP--PQLTSRGMGDLIMTQTYEALYKSTSN 59
QY 101 KPLMIHHLDECPHSQALKKVAENKEIQLAE-QFVLLNLVYETTDKHLSPDQYVRI 159
Db 60 KPLMIHHLDECPHSQALKKVAENKEIQLAE-QFVLLNLVYETTDKHLSPDQYVRI 119
QY 160 MEVDPSTLYVRADITGRYSNRLYATVERAPATALLDMKKALKIKTEL 206
Db 120 MEVDPSTLYVRADITGRYSNRLYATVERAPATALLDMKKALKIKTEL 166

RESULT 12
US-10-066-273-54
Sequence 54, Application US/10066273
Publication No. US20030032062A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kjaavin
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECURED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1C2
CURRENT APPLICATION NUMBER: US/10/066, 273
CURRENT FILING DATE: 2002-02-01
PRIORITY APPLICATION NUMBER: 10/002, 796
PRIORITY FILING DATE: 2001-11-15
PRIORITY APPLICATION NUMBER: 60/056974
PRIORITY FILING DATE: 1997-08-26
PRIORITY APPLICATION NUMBER: 60/059115

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PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/059263  
PRIOR FILING DATE: 1997-09-18  
PRIOR APPLICATION NUMBER: 60/059588  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/062285  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/062816  
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PRIOR FILING DATE: 1997-10-31  
PRIOR APPLICATION NUMBER: 60/063329  
PRIOR FILING DATE: 1997-10-27  
PRIOR APPLICATION NUMBER: 60/063733  
PRIOR FILING DATE: 1997-10-29  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/066840  
PRIOR FILING DATE: 1997-11-25  
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PRIOR APPLICATION NUMBER: 09/136801  
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PRIOR APPLICATION NUMBER: 09/136828  
PRIOR FILING DATE: 1998-08-19  
PRIOR APPLICATION NUMBER: 09/158342  
PRIOR FILING DATE: 1998-09-21  
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PRIOR FILING DATE: 1998-09-10  
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PRIOR FILING DATE: 1998-12-08  
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PRIOR FILING DATE: 1999-06-14  
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PRIOR FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: 09/380138  
PRIOR FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: 09/380139  
PRIOR FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: 09/403296  
PRIOR FILING DATE: 1999-10-18  
PRIOR APPLICATION NUMBER: 09/403297  
PRIOR FILING DATE: 1999-10-18  
PRIOR APPLICATION NUMBER: 09/423741  
PRIOR FILING DATE: 1999-11-10  
PRIOR APPLICATION NUMBER: 09/423844  
PRIOR FILING DATE: 1999-11-12  
PRIOR APPLICATION NUMBER: 09/522342  
PRIOR FILING DATE: 2000-03-09  
PRIOR APPLICATION NUMBER: 09/548815  
PRIOR FILING DATE: 2000-04-13  
PRIOR APPLICATION NUMBER: 09/664610  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: 09/665350  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: 09/709238  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 09/767609  
PRIOR FILING DATE: 2001-01-22  
PRIOR APPLICATION NUMBER: 09/802706  
PRIOR FILING DATE: 2001-03-09  
PRIOR APPLICATION NUMBER: 09/808689  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 09/866028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 09/870574  
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PRIOR FILING DATE: 2001-06-01  
PRIOR APPLICATION NUMBER: 09/886342  
PRIOR FILING DATE: 2001-06-19  
PRIOR APPLICATION NUMBER: PCT/US98/14552  
PRIOR FILING DATE: 1998-07-14  
PRIOR APPLICATION NUMBER: PCT/US98/18824  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: PCT/US98/19093  
PRIOR FILING DATE: 1998-09-14  
PRIOR APPLICATION NUMBER: PCT/US98/19330  
PRIOR FILING DATE: 1998-09-16  
PRIOR APPLICATION NUMBER: PCT/US98/19437  
PRIOR FILING DATE: 1998-09-17  
PRIOR APPLICATION NUMBER: PCT/US98/24855

;; PRIOR FILING DATE: 1998-11-20  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: 1998-12-01  
;; PRIOR APPLICATION NUMBER: PCT/US98/25190  
;; PRIOR FILING DATE: 1998-11-25  
;; PRIOR APPLICATION NUMBER: PCT/US99/05028  
;; PRIOR FILING DATE: 1999-03-08  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: 1999-06-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/20111  
;; PRIOR FILING DATE: 1999-09-01  
;; PRIOR APPLICATION NUMBER: PCT/US99/20594  
;; PRIOR FILING DATE: 1999-09-08  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/21547  
;  
Query Match 52.2%; Score 555; DB 9; Length 166;  
Best Local Similarity 64.7%; Pred. No. 2e-50;  
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;  
;  
Qy 41 LLLVALSYLTARDTYVKGAKKDTKDSRKLPTLSRGWGDQILMTQTYEALYKSKTSN 100  
Db 11 LLLVTVSSNLA--IAIK-----KEKRP--POTLSRGWGDITWVQTYEGLFPAQSK 59  
;  
Qy 101 KPLMIHHDECPHSAQAKVFANKEFIQKLAE-QFVLLMLVYETTDKHSPPGOVYPR 159  
Db 60 KPLMIVHHLEDCQYSQLKVFQNEIODEMAQNKFTMLNMEHTDKNSPQGVYPR 119  
;  
Qy 160 MFVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKKALKLTTEL 206  
Db 120 MFVDPSTLVTRADITAGRSNRLTYEPDRDLLEIENMKKALKLQSEL 166  
;  
RESULT 13  
US-10-066-494-54  
;; Sequence 54, Application US/10066494  
;; Publication No. US20030032063A1  
;; GENERAL INFORMATION:  
;; APPLICANT: AVI J. Ashkenazi  
;; APPLICANT: Kevin P. Baker  
;; APPLICANT: David A. Bolstein  
;; APPLICANT: Luc Desnoyers  
;; APPLICANT: Dan L. Eaton  
;; APPLICANT: Napoleone Ferrara  
;; APPLICANT: Sherman Fong  
;; APPLICANT: Wei-Qiang Gao  
;; APPLICANT: Hanspeter Gerber  
;; APPLICANT: Mary E. Gerritsen  
;; APPLICANT: Audrey Goddard  
;; APPLICANT: Paul J. Godowski  
;; APPLICANT: Austin L. Gurney  
;; APPLICANT: Ivar J. Kljavin  
;; APPLICANT: Jennie P. Malher  
;; APPLICANT: Mary A. Napier  
;; APPLICANT: James Pan  
;; APPLICANT: Nicholas F. Paoni  
;; APPLICANT: Margaret Ann Roy  
;; APPLICANT: Timothy A. Stewart  
;; APPLICANT: Daniel Tumas  
;; APPLICANT: Colin K. Watanabe  
;; APPLICANT: P. Mickey Williams  
;; APPLICANT: William I. Wood  
;; APPLICANT: Zemin Zang  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P3130R1C9  
;; CURRENT APPLICATION NUMBER: US/10/066,494  
;; PRIOR FILING DATE: 2002-02-01  
;; PRIOR APPLICATION NUMBER: 10/002,796  
;; PRIOR FILING DATE: 2001-11-15  
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;; PRIOR FILING DATE: 1997-08-26

;; PRIOR APPLICATION NUMBER: 60/059115  
;; PRIOR FILING DATE: 1997-09-17  
;; PRIOR APPLICATION NUMBER: 60/059263  
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;; PRIOR APPLICATION NUMBER: 60/100858  
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;; PRIOR APPLICATION NUMBER: 60/101922  
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;; PRIOR APPLICATION NUMBER: 60/125778  
;; PRIOR FILING DATE: 1999-03-23  
;; PRIOR APPLICATION NUMBER: 60/139695  
;; PRIOR FILING DATE: 1999-06-15  
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;; PRIOR APPLICATION NUMBER: 09/136801  
;; PRIOR FILING DATE: 1998-08-19  
;; PRIOR APPLICATION NUMBER: 09/136804

PRIOR FILING DATE:	1998-08-19
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PRIOR FILING DATE:	1998-09-17

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PRIORITY APPLICATION NUMBER: PCT/US98/25108
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PRIORITY APPLICATION NUMBER: PCT/US98/25190
PRIORITY FILING DATE: 1998-11-25
PRIORITY APPLICATION NUMBER: PCT/US99/05028
PRIORITY FILING DATE: 1999-03-08
PRIORITY APPLICATION NUMBER: PCT/US99/12252
PRIORITY FILING DATE: 1999-06-02
PRIORITY APPLICATION NUMBER: PCT/US99/20111
PRIORITY FILING DATE: 1999-09-01
PRIORITY APPLICATION NUMBER: PCT/US99/20594
PRIORITY FILING DATE: 1999-09-08
PRIORITY APPLICATION NUMBER: PCT/US99/21090
PRIORITY FILING DATE: 1999-09-15
PRIORITY APPLICATION NUMBER: PCT/US99/21547

Query Match 52.2%, Score 555, DB 9; Length 166;
Best Local Similarity 64.7%, Pred. No. 2e-50;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4

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QY 101 KPLMIHHLDECPHSQALKKVFANEKEIQKLAE-OFVLNLVYETTDKHLSPDGOVPR 159
Db 60 KPLVMIHHLDECOYSQALKKVFANEKEIQKLAE-OFVLNLVYETTDKHLSPDGOVPR 119
QY 160 MFVDPSTLVRADITGRYSNRLAYVPRADTALLDMKKALKLKLTEL 206
Db 120 MFVDPSTLVRADITGRYSNRLAYVPRADTALLDMKKALKLKLTEL 166

RESULT 14
US-10-230-163-116
Sequence 116, Application US/10230163
Publication No. US20030036635A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaud, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3530P1C96
CURRENT APPLICATION NUMBER: US/10/230.163
CURRENT FILING DATE: 2002-08-28
PRIORITY APPLICATION NUMBER: 10/119,480
PRIORITY FILING DATE: 2002-04-09
PRIORITY APPLICATION NUMBER: 60/059113
PRIORITY FILING DATE: 1997-09-17
PRIORITY APPLICATION NUMBER: 60/062287
PRIORITY FILING DATE: 1997-10-17
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PRIORITY FILING DATE: 1997-10-31
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 PRIOR FILING DATE: 1998-11-20  
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 PRIOR APPLICATION NUMBER: PCT/US99/20554  
 PRIOR FILING DATE: 1999-09-08  
 PRIOR APPLICATION NUMBER: PCT/US99/21090  
 PRIOR FILING DATE: 1999-09-15  
 PRIOR APPLICATION NUMBER: PCT/US99/21547

[illegible]

Search completed: March 13, 2003, 15:38:42  
Job time : 28 secs

; PRIOR FILING DATE: 1998-09-16



GenCore version 5.1.4.p5.4578  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: March 13, 2003, 18:20:01 ; Search time 39 Seconds

(without alignments)  
1619.882 Million cell updates/sec

Title: US-09-674-266A-181

Perfect score: 1063  
Sequence: 1 RUSCAGTMSGSPHPSRRLT.....DFALLDMKKALKLKTTEL 206

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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
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Listing first 45 summaries

Command line parameters:

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6: /cgn2\_6/ptodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	991	93.2	875	4	US-08-916-576B-1. Sequence 1, Appli
2	961	90.4	1689	4	US-09-247-155-61. Sequence 61, Appli
3	914	86.0	940	4	US-09-247-155-149. Sequence 149, App
4	856.5	80.6	793	4	US-09-040-984-78. Sequence 78, Appli
5	856.5	80.6	793	4	US-09-123-912-78. Sequence 78, Appli
6	856.5	80.6	793	4	US-09-643-597-78. Sequence 78, Appli
7	683	64.3	401	4	US-09-221-298-32. Sequence 32, Appli
8	642	60.4	386	4	US-08-916-576B-35. Sequence 35, Appli
9	631	59.4	404	4	US-09-643-597-282. Sequence 282, App
10	535	52.2	732	4	US-08-916-576B-5. Sequence 5, Appli
11	487.5	45.9	373	4	US-08-916-576B-36. Sequence 36, Appli
12	458.5	43.1	489	4	US-08-916-576B-9. Sequence 9, Appli

13	376.5	35.4	506	4	US-08-916-576B-10. Sequence 10, Appli
14	253	23.8	158	4	US-08-916-576B-37. Sequence 37, Appli
15	252	23.7	159	4	US-09-030-607-209. Sequence 209, App
16	252	23.7	159	4	US-09-605-785-209. Sequence 209, App
17	252	23.7	159	4	US-09-439-313-209. Sequence 209, App
18	252	23.7	159	4	US-09-352-616A-209. Sequence 209, App
19	252	23.7	159	4	US-09-232-149A-209. Sequence 209, App
20	222	20.9	1423	4	US-08-916-576B-3. Sequence 3, Appli
21	183.5	17.3	136	4	US-08-916-576B-38. Sequence 38, Appli
22	158	14.9	302	4	US-08-916-576B-19. Sequence 19, Appli
23	147.5	13.9	310	4	US-08-916-576B-40. Sequence 40, Appli
24	129	12.1	311	4	US-08-916-576B-14. Sequence 14, Appli
25	104	9.8	329	4	US-08-916-576B-12. Sequence 12, Appli
26	104	9.8	329	4	US-08-916-576B-13. Sequence 13, Appli
27	104	9.8	329	4	US-08-916-576B-14. Sequence 14, Appli
28	104	9.8	329	4	US-08-916-576B-15. Sequence 15, Appli
29	101	9.5	330	4	US-08-916-576B-15. Sequence 15, Appli
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32	87.5	8.2	505	4	US-08-916-576B-18. Sequence 18, Appli
33	86	8.1	8257	4	US-09-484-970B-65. Sequence 65, Appli
34	82	7.7	326	4	US-08-916-576B-16. Sequence 16, Appli
35	79.5	7.5	1443	4	US-09-221-017B-685. Sequence 685, App
36	79.5	7.5	2470	1	US-07-745-206A-14. Sequence 14, Appli
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39	79.5	7.5	5467	2	US-08-311-363-12. Sequence 12, Appli
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45	79.5	7.5	7175	3	US-08-450-362-8. Sequence 8, Appli

#### ALIGNMENTS

RESULT 1  
US-08-916-576B-1  
Sequence 1, Application US/08916576B  
Patent No. 6171816  
GENERAL INFORMATION:  
APPLICANT: YU, GUO-LIANG  
APPLICANT: DILLON, PATRICK J.  
APPLICANT: EBNER, REINHARD  
APPLICANT: ENDRESS, GREGORY A.  
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVENUE, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: US  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/916.576B  
FILING DATE:  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/024.347  
FILING DATE: 23-AUG-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: STERPE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0500001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600

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; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 71..595
; NAME/KEY: mat-peptide
; LOCATION: 131..595
; FEATURE:
; NAME/KEY: sig-peptide
; LOCATION: 71..130
US-08-916-576B-1

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Pred. No.: 4, 9e-117 Length: 875
Score: 991.00 Matches: 193
Percent Similarity: 99.48% Conservative: 0
Best Local Similarity: 99.48% Mismatches: 1
Query Match: 93.23% Indels: 0
Gaps: 0

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QY 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
Db 134 GATACCACTCAAGCAAACTGGAGCCAAAGAGACAAAGAGCTCGACCAACTGCC 193
QY 73 GlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrGlnGluAla 92
Db 194 CAGACCCCTCTCCAGAGGTGGGGTGACCAACTCATCTGGACTCAGACATATGAAGAGCT 253
QY 93 LeuTyfLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCys 112
Db 254 CTATATTAATCCAGACAGCAACAAACCTTGATGATTTATTCATCTGAGTGC 313
QY 113 ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla 132
Db 314 CCACACAGCTCAAGCTTAAAGAAAGTGTTCGTAATAAAGAAATTCAGAAATTGGCA 373
QY 133 GlnGlnPheValLeuLeuAsnLeuValTyrgLnuThrAspLysHisLeuSerProasp 152
Db 374 GAGAGTTTGTCCTCCATCTGTTATGAACAACGTGCAACCTTCTCTCTGAT 433
QY 153 GlyGlnTyfValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
Db 434 GGCAGATATGCCCCAGAGATTATGTTGTTGACCATCTCTGACAGATTAGCCGATATC 493
QY 173 ThrGlyArgTyfSerAsnArgLeuTyfAlaTyfGluProAlaAspThrAlaLeuLeu 192
Db 494 ACTGGAAGATTAATCAATCGCTCTATGCTTACGACACCTGCAGATACAGCTGTGCTT 553
QY 193 AspAsnMetLysLysAlaLeuLysLeuLeuLysThrGlnLeu 206
Db 554 GACACATGAAGAAGCTCTCAAGTGTCTGAAGACTGAATTG 595

RESULT 2
US-09-247-155-61
; Sequence 61, Application US/09247155A
; Patent No. 6312922
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; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duchet, Aymeric
; APPLICANT: Bouguetier, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET 021A
; CURRENT APPLICATION NUMBER: US/09/247,155A
; EARLIER FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/074,121
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/081,563
; EARLIER FILING DATE: 1998-04-13
; EARLIER APPLICATION NUMBER: 60/096,116
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/099,273
; EARLIER FILING DATE: 1998-10-04
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO 61
; LENGTH: 1689
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 51..575
; FEATURE:
; NAME/KEY: sig-peptide
; LOCATION: 51..110
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; OTHER INFORMATION: seq AFLVLAISTLA/RD
; NAME/KEY: polyA-signal
; LOCATION: 1653..1658
; FEATURE:
; NAME/KEY: polyA-site
; LOCATION: 1674..1689
US-09-247-155-61

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Pred. No.: 9, 27e-113 Length: 1689
Score: 961.00 Matches: 189
Percent Similarity: 96.92% Conservative: 0
Best Local Similarity: 96.92% Mismatches: 0
Query Match: 90.40% Indels: 6
Gaps: 1

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QY 32 MetGluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyThrLeuAla 51
Db 51 ATGAGAAATTCAGAGTCAGATTCCTGCTTGGGCCCTCTCTACATCTGGCC 110
QY 52 ArgAspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeu 71
Db 111 AGAGTATCCACAGTCACAACTCGAGCCAAAGAGACCAAAAGAGCTCTCGAACCACTG 170
QY 72 ProGlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrGlnGlu 91
Db 171 CCCAGACCCCTCTCCAGAGTTGGGGTGACCAACTCATCTGAGCTCAGACATATGAAGAA 230
QY 92 AlaLeuTyfLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGlu 111
Db 231 GCTCTATATAATATCCAAAGCAAGCAAAACCTTGATGATTAATTCATCACTTGGATGAG 290
QY 112 CysProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeu 131
Db 291 TGCCCAACAGCTCAAGCTTTTAAAGAAAGTGTTCGTAATAAAGAAATTCAGAAATTG 350
```

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Oy 132 ALGILGILNPHIEVALILEULEASULEVALRYGILNPHIRAPPLYSHISLEUSEPRO 153
Db 351 GCAGACGACGTTGTCCTCTCTCAATCTGTTATTATGAACACACTGCACCAACACTTTCCT 410
Oy 152 ASPLGILNRYVALIPROARGILEMEPEHEVALASPROSERLEUTHRALGALASP 173
Db 411 GATGGCCAGTATGTCGCCAGATTAATGTTGTGTGACCCATCTCTGCACAGTTAGAGCCAT 470
Oy 172 ILEHRYGLIARYGYSERASARGLEUTHRALRYGLIUPPOALASPTHRALALEULE 191
Db 471 ATCACTGGAAATATTTCAAATCGTCTCTATCTTACGCAACCTGCAGATACAGCTCTGTG 530
Oy 192 LEUASPASMETLYSLYSALALEULELYSLEULELYSPTHRIULU 206
Db 531 CTTGACCAACATGAAGAAAGCTCTCAAGTTGCTGAAGACTGAAATTTG 575

RESULT 3
US-09-247-155-149
: Sequence 149, Application US/09247155A
: Patent No. 6312822
: GENERAL INFORMATION:
: APPLICANT: Dumas Milne Edwards, Jean-Baptiste
: APPLICANT: Duclert, Aymeric
: APPLICANT: Bouqueleret, Lydie
: TITLE OF INVENTION: Complementary DNAs
: FILE REFERENCE: GENSET.021A
: CURRENT APPLICATION NUMBER: US/09/247,155A
: EARLIER FILING DATE: 1999-02-09
: EARLIER APPLICATION NUMBER: 60/074,121
: EARLIER FILING DATE: 1998-02-09
: EARLIER APPLICATION NUMBER: 60/081,563
: EARLIER FILING DATE: 1998-04-13
: EARLIER APPLICATION NUMBER: 60/096,116
: EARLIER FILING DATE: 1998-08-10
: EARLIER APPLICATION NUMBER: 60/099,273
: EARLIER FILING DATE: 1998-10-04
: NUMBER OF SEQ ID NOS: 182
: SOFTWARE: Patent.pm
: SEQ ID NO 149
: LENGTH: 940
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 177..569
: FEATURE:
: NAME/KEY: sig_peptide
: LOCATION: 177..236
: OTHER INFORMATION: Von Heijne matrix
: OTHER INFORMATION: score 11.199998092651
: FEATURE:
: NAME/KEY: polyA_site
: LOCATION: 931..939
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: 482
: OTHER INFORMATION: n=a, y, c or t

US-09-247-155-149

Alignment Scores:
Pred. NO.: 3,69e-107 Length: 940
Score: 914.00 Matches: 188
Percent Similarity: 90.82% Conservative: 0
Best Local Similarity: 90.82% Mismatches: 12
Query Match: 85.98% Indels: 8
Db: 4 Gaps: 1

US-09-674-266A-181 (1-206) x US-09-247-155-149 (1-940)

Oy 1 ARGLEUSARYSALAGLYTHLEUSERGLYSERGYPROHISPROSERARGARGLEUTHR 20
Db 103 AGACGTCACCTGTGGCGACACTCAGAGCTT-GGACCGCATCTCAAGCGCGGACTACA 160

```

```

OY      21  GlnGlyAlaGTrPValArgLysSerArgValAlaMetGluLysIleProValSerAlaPhe  40
          |||||
          |||||
Db      162  CAAGGC-----AGACTTGCCATGCAAAAAATTCAGTGTCCAGCATTC  203
OY      41  LeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLysProGlyVala  60
          |||||
          |||||
Db      204  TTGCTCTCTTGCGCCCTCTCTTACACTTGCGCCAGAGATACCACAGTCAACCTCGAGACC  265
OY      61  LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTyrPgly  80
          |||||
          |||||
Db      264  AAAAAGSACACAAAGGACTTCGCAACCCAAACCTGCCCCAGACCCTCTCCAGAGGTTGGGGT  322
OY      81  AspGlnLeuLleTyrPThrGlnThrTyrGluGluAlaLeuTyrLysSerLysThrSerAsn  100
          |||||
          |||||
Db      324  GACCAACTCATCTGACACARACATATGAAARAARCTCTATTTAAATCCAAACACAAGCAAC  383
OY      101  LysProLeuMetLleLleHisHisLeuSpGluCysProHisSerGlnAlaLeuLysLys  120
          |||||
          |||||
Db      364  AAACCTTGATGATTATTCATCATCTGGATGADTGCCACACAGCAAGCATTTAAAAAAA  444
OY      121  ValPheAlaGluAsnLysGluLleGlnLysLeuAlaGluGlnPheValLeuLeuAsnLeu  144
          |||||
          |||||
Db      444  KGTGTTGCTGAAATAAARAATCCAGAATTTGGCARNCAGTTTGTCCTCAATCTG  503
OY      141  ValTyrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrVal-ProArgIleMe  160
          |||||
          |||||
Db      504  GTTATGAAACAACATGACAACACCTTTCTCTGATGSCCAATATKTCCTCCCMGATAT  563
OY      160  PheAlaAspProSerLeuThrValArgAlaAspLleThrLysArgTyrSerAsnArgLe  180
          |||||
          |||||
Db      564  GTTGTGTTACCCATCTCGACAGTTAGAGCCGATATCACTGGAAAGATATTTCAAAVCGCTCT  623
OY      180  UTYrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAspAsnMetLysAlaLeuLys  200
          |||||
          |||||
Db      624  CTAATCTTACGACCTGCGAGATACAGCTCTGTGCTTGACACATGAAAGAAAGCTCTCA  683
OY      200  sleuLeuLysThrGluLeu  206
          |||||
          |||||
Db      684  GTTGCTWGAAGACTGMAATG  702

RESULT 4
; US-09-040-984-78
; Sequence 78, Application US/09040984
; Patent No. 6210883
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS
; TITLE OF INVENTION: OF LONG CANCER
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE: 18-MAR-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.456
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-622-4900

```

```

; TELEFAX: 206-282-6031
;
; TELETYPE:
;
; INFORMATION FOR SEQ ID NO: 78:
;
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 793 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;
US-09-040-984-78

Alignment Scores:
Pred. No.: 6.17e-100      Length: 793
Score: 856.50            Matches: 177
Percent Similarity: 94.74%  Conservative: 3
Best Local Similarity: 93.16% Mismatches: 9
Query Match: 80.57%       Indels: 3
DB: 4                      Gaps: 1

US-09-674-266a-181 (1-206) x US-09-040-984-78 (1-793)

QY 14 H1SPROSEARGATGLeuThGInGlyARGTTPyAlARGLYSerARgVAlAlaMetGlu 33
Db 2 CATCTACGCCGCGACTACACAGGAGGCGGTGAGGAATCCAGATTGCCATGGAG 61

QY 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTYrThrLeuAlaArgasp 53
Db 62 AAATTCAGTGTGAGCATCTCTGCTGCTGCGCCCTCTCTACACTGCGCCAGAGAT 121

QY 54 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerARgProLysLeuProGln 73
Db 122 ACCACAGCTCAACCTGGAGCCAAAAAGACAAAGACTCTCGACCAACTGCGCCAG 181

QY 74 ThrLeuSerARgGlyTRPGlyAspGlnLeuIleTrpThrGlnThrTYrGluGluAlaLeu 93
Db 182 ACCCTCTCAGAGGTGGGGTGAGCAACTCATCTGAGACTCAGACATATGAGAACTCTA 241

QY 94 TYrLysSerLysThrSerAsnLysProLeuMetIleIleHISLysLeuAspGluCysPro 113
Db 242 TATTAATCCAGACAGACAAACCCCTTGATGATATTATTCATCCTTGATGAGTGGCCA 301

QY 114 H1SserGlnAlaLeuLysLysValPheAlaGlnLysGlnIleGlnLysLeuAlaGlu 133
Db 302 CACAGTCAGCTTTAAAGAAAGTGTTCCTGAAATTAAGAAATTCAGAAATTTGGCAAG 361

QY 134 GlnPheValLeuLeuAsnLeuValTYrGluThrThrAspLysHISLeuSerProAspGly 153
Db 362 CAGTTTGTCTCTCAATCTGTTATGAAACACTGACAAACCTTCTCTGATGAGC 421

QY 154 GlnTYrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
Db 422 CAGTATGT-CCCAGAGATTATGTTGTGTGACCCATCTGAGACATTGAAGCCGATATCTCG 480

QY 174 GlyrGTYrSerAsnArgLeuTYrAlaTYrGluProAlaAspThrAlaLeuLeuAsp 193
Db 481 GGAAGATATTCCAAACCGCTGATGCTTACAAACT-GCAGATACGCTCTGTGCTTGACA 539

QY 194 AsnMetLysLysAlaLeuLysLeuLys 203
Db 540 CAT---GAAAAAGCTCTCAAGTTGCTNAA 566

RESULT 5
US-09-123-912-78
; Sequence 78, Application US/09123912A
; Patient No. 6312695
;
; GENERAL INFORMATION:
;     APPLICANT: Reed, Steven G.
;     TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY OF LUNG CANCER
;     FILE REFERENCE: 210121.455C1
;     CURRENT APPLICATION NUMBER: US/09/123,912A
;     CURRENT FILING DATE: 1998-07-27
;     PRIOR APPLICATION NUMBER: 09/040,802
;     PRIOR FILING DATE: 1998-03-18
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; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 78
; LENGTH: 793
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
;     NAME/KEY: modified_base
;     LOCATION: (309)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (492)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (563)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (657)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (660)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (703)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (708)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (710)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (711)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (732)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (740)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (748)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (758)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (762)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (765)
;     OTHER INFORMATION: where n is a, c, g or t
;     NAME/KEY: modified_base
;     LOCATION: (787)
;     OTHER INFORMATION: where n is a, c, g or t
;
US-09-123-912-78

Alignment Scores:
Pred. No.: 6.17e-100      Length: 793
Score: 856.50            Matches: 177
Percent Similarity: 94.74%  Conservative: 3
Best Local Similarity: 93.16% Mismatches: 9
Query Match: 80.57%       Indels: 3
DB: 4                      Gaps: 1

US-09-674-266a-181 (1-206) x US-09-123-912-78 (1-793)

QY 14 H1SPROSEARGATGLeuThGInGlyARGTTPyAlARGLYSerARgVAlAlaMetGlu 33
Db 2 CATCTACGCCGCGACTACACAGGAGGCGGTGAGGAATCCAGATTGCCATGGAG 61

QY 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTYrThrLeuAlaArgasp 53
Db 62 AAATTCAGTGTGAGCATCTCTGCTGCTGCGCCCTCTCTACACTGCGCCAGAGAT 121
```

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Db 62 AAAATTCAGTGCAGCATTTCTGCTTGTCGCCCTCTCTACACTGCGCAGAGAT 121
QY 54 ThrThrValValProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73
Db 122 ACCACAGTCAAACTGGAGCCAAAAAGGACAAAGAGACTCTGACCAAACTGCCCCAG 181
QY 74 ThrLeuSerArgGlyTyrPglYaspGlnLeuIleTrrPthGlnThrTyrGlnGluAlaLeu 93
Db 182 ACCCTCTCCAGAGTTGGGGTGACCACTCATCTGACACATATGAGAAGCTCTA 241
QY 94 TyrLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGlyCysPro 113
Db 242 TATAAATCCAGACAAGCAAAACCCCTGATGATATTATCATCACCCTTGATGAGTGCCCA 301
QY 114 HisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGlu 133
Db 302 CACAGTCNAGCTTTAAAGAAAGTTGGCTGAAATAAAGAAATCCAGAAATGGCGAGAG 361
QY 134 GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGly 153
Db 362 CAGTTGCTCTCTCTCATCTGGTTTATGAACAACAGCAACACCTTTCTCTGATGGC 421
QY 154 GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
Db 422 CAGTATGCT-CCAGAGATATGTTGTTTGGACCATCTCTGACAGTGAAGCCGATATCCTG 480
QY 174 GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuAsp 193
Db 481 GGAAGATATTCAACCGCTCTATGCTTACAAACT-GCAGATACGCTCTGCTTGGACACA 539
QY 194 AsnMetLysLysAlaLeuLysLeuLys 203
Db 540 CAT---GAAAAAGCTCTCAAGTTGCTNAAA 566

```

## RESULT 6

```

US-09-643-597-78
: Sequence 78, Application US/09643597
: Patent No. 6426072

```

## GENERAL INFORMATION:

```

: APPLICANT: Wang, Tonglong
: APPLICANT: Fan, Liqun
: APPLICANT: Kalos, Michael D.
: APPLICANT: Bangur, Chaitanya S.
: APPLICANT: Hosken, Nancy
: APPLICANT: Fanger, Gary R.
: APPLICANT: Li, Samuel X.
: APPLICANT: Wang, Aljun
: APPLICANT: Skeiky, Yasir A.W.
: APPLICANT: Henderson, Robert A.
: APPLICANT: McNeill, Patricia D.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
: FILE REFERENCE: 210121.455C11
: CURRENT APPLICATION NUMBER: US/09/643,597
: CURRENT FILING DATE: 2000-08-21
: NUMBER OF SEQ ID NOS: 369
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 78
: LENGTH: 793
: TYPE: DNA
: ORGANISM: Homo sapien
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(793)
: OTHER INFORMATION: n = A,T,C or G
US-09-643-597-78

```

## Alignment Scores:

```

Pred. No.: 6,17e-100
Score: 856.50
Percent Similarity: 94.74%
Best Local Similarity: 93.16%
Query Match: 80.57%

```

```

Length: 793
Matches: 177
Conservative: 3
Mismatch: 9
Indels: 3

```

```

DB: 4 Gaps: 1

```

```

US-09-674-266a-181 (1-206) x US-09-643-597-78 (1-793)

```

```

QY 14 HisProSerArgArgLeuThrGlnGlyArgTrrPvalArgLysSerArgValAlaMetGlu 33
Db 2 CATCTTAGCCCGCCGACTACACACAAGGAGGTGGTGAGGAATTCAGAGTTCATGAGAG 61
QY 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArgAsp 53
Db 62 AAAATTCAGTGCAGCATTTCTGCTTGTCGCCCTCTCTACACTGCGCAGAGAT 121
QY 54 ThrThrValValProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73
Db 122 ACCACAGTCAAACTGGAGCCAAAAAGGACAAAGAGACTCTGACCAAACTGCCCCAG 181
QY 74 ThrLeuSerArgGlyTyrPglYaspGlnLeuIleTrrPthGlnThrTyrGlnGluAlaLeu 93
Db 182 ACCCTCTCCAGAGTTGGGGTGACCAACTCATCTGACACATATGAGAAGCTCTA 241
QY 94 TyrLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGlyCysPro 113
Db 242 TATAAATCCAGACAAGCAAAACCCCTGATGATATTATCATCACCCTTGATGAGTGCCCA 301
QY 114 HisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGlu 133
Db 302 CACAGTCNAGCTTTAAAGAAAGTTGGCTGAAATAAAGAAATCCAGAAATGGCGAGAG 361
QY 134 GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGly 153
Db 362 CAGTTGCTCTCTCTCATCTGGTTTATGAACAACAGCAACACCTTTCTCTGATGGC 421
QY 154 GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
Db 422 CAGTATGCT-CCAGAGATATGTTGTTTGGACCATCTCTGACAGTGAAGCCGATATCCTG 480
QY 174 GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuAsp 193
Db 481 GGAAGATATTCAACCGCTCTATGCTTACAAACT-GCAGATACGCTCTGCTTGGACACA 539
QY 194 AsnMetLysLysAlaLeuLysLeuLys 203
Db 540 CAT---GAAAAAGCTCTCAAGTTGCTNAAA 566

```

## RESULT 7

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US-09-221-298-32
: Sequence 32, Application US/09221298
: Patent No. 6284241

```

## GENERAL INFORMATION:

```

: APPLICANT: Xu, Jiangchun
: TITLE OF INVENTION: OF COLOIN CANCER
: TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
: FILE REFERENCE: 210121.471
: CURRENT APPLICATION NUMBER: US/09/221,298
: CURRENT FILING DATE: 1998-12-23
: NUMBER OF SEQ ID NOS: 112
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 32
: LENGTH: 401
: TYPE: DNA
: ORGANISM: Human
US-09-221-298-32

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## Alignment Scores:

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Pred. No.: 2.96e-78
Score: 683.00
Percent Similarity: 98.51%
Best Local Similarity: 98.51%
Query Match: 64.25%
DB: 4 Gaps: 0

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Length: 401
Matches: 132
Conservative: 0
Mismatch: 1
Indels: 1

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US-09-674-266a-181 (1-206) x US-09-221-298-32 (1-401)

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QY 57 LysProGlyValAlaLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSer 76
DB 2 AAACCTGAGCAAAAGAGACAAAGACTCTCGACCAACTGCCGACCCCTCTCC 61
QY 77 ArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrgluGluAlaLeuTyrglySer 96
DB 62 AGAGGTGGGGTGGACCAACCATCTGAGCTCAGACATATGAGAGCTCTATATAATCC 121
QY 97 LysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCysProHisSerGln 116
DB 122 AACACAGCAACAAACCCCTGATGATTAATTCATCAGCTGGTGAGTCCACACAGCA 181
QY 117 AlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheVal 136
DB 182 GCCTTAAGAAAGCTGTTGCTGAATAAAGCAATCGAAGATTGGCAGACAGCTTTGTC 241
QY 137 LeuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAspGlyGlnTyrgly 156
DB 242 CTCTCAATCTGTTTATGAAACACTGACAAACACCTTCTCTGATGCGCCAGTATGTC 301
QY 157 ProArgIleMetPheValAspProSerLeuThrValArgAla-AspIleThrGlyArgTy 176
DB 302 CCAGAGTATATGTTTGTTCACCATCTCGACAGCTTAGAGCCCGATATCTAGTGAAGATA 361
QY 176 rSerAsnArgLeuTyrglyAlaTyrgluProAlaAspThrAla 189
DB 362 TTCAAACCGTCTCTATGCTTAGACACCTGCAGATACAGCT 401

```

# RESULT 8

US-08-916-576B-35  
Sequence 35, Application US/08916576B  
Patent No. 6171816

GENERAL INFORMATION:  
APPLICANT: YU, GUO-LIANG  
APPLICANT: DILLON, PATRICK J.  
APPLICANT: EBNER, REINHARD  
APPLICANT: ENDRESS, GREGORY A.  
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSWEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVENUE, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: US  
ZIP: 20005-3934

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/916,576B  
FILING DATE:

CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/024,347  
FILING DATE: 23-AUG-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488,0500001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2540  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 386 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA

US-08-916-576B-35

Alignment Scores:  
Pred. No.: 4,77e-73  
Score: 642.00  
Percent Similarity: 99.22%  
Best Local Similarity: 97.66%  
Query Match: 60.40%  
DB: 4  
Gaps: 0

US-09-674-266A-181 (1-206) x US-08-916-576B-35 (1-386)

```

QY 61 LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly 80
DB 2 CGACAGGACACAAAGGAGCTCTCGACCAACTGCCGACCCCTCTCAGAGGTTGGGGT 61
QY 81 AspGlnLeuIleTrpThrGlnThrTyrgluGluAlaLeuTyrglySerLysThrSerAsn 100
DB 62 GACAA-CTCATCTGAGCTCAGACATATGAAGAACTCTATATAATCCAGACAGCAAC 120
QY 101 LysProLeuMetIleIleHisHisLeuAspGluCysProHisSerGlnAlaLeuLysLys 120
DB 121 AACCCCTTGATGATTTATTCATCACTTGATGAGTGGCCACACAGTCAAGCTTTAAAGAA 180
QY 121 ValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeuLeuAsnLeu 140
DB 181 GTCTTGCTGAATAAAGAAATCCAGAAATTGGCAGAGAGCTTTCCTCTCAATCTG 240
QY 141 ValTyrgluThrThrAspLysHisLeuSerProAspGlyGlnTyrglyProArgIleMet 160
DB 241 GTTATGAACAAACACTGACAAACACTTTCCTCGATGCGCAGATATCTCCCGAGATTATG 300
QY 161 PheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrglySerAsnArgLeu 180
DB 301 TTTGTTGACCACTCTGACAGTTAGACCGGATATCATCTGGAAGATTCAAATCGCTGC 360
QY 181 TyrAlaTyrgluProAlaAspThr 188
DB 361 TATGCTTAGCAACCTGCAGATAC 384

```

# RESULT 9

US-09-643-597-282  
Sequence 282, Application US/09643597  
Patent No. 6426072

GENERAL INFORMATION:  
APPLICANT: Wang, Tonglong  
APPLICANT: Fan, Liqun  
APPLICANT: Kalos, Michael D.  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Hosken, Nancy  
APPLICANT: Fanger, Gary R.  
APPLICANT: Li, Samuel X.  
APPLICANT: Wang, Aijun  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Henderson, Robert A.  
APPLICANT: McNeill, Patricia D.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
FILE REFERENCE: 210121,455C11  
CURRENT APPLICATION NUMBER: US/09/643,597  
CURRENT FILING DATE: 2000-08-21  
NUMBER OF SEQ ID NOS: 369  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282

LENGTH: 404  
TYPE: DNA  
ORGANISM: Homo sapien  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(404)  
OTHER INFORMATION: n = A,T,C or G  
US-09-643-597-282

Alignment Scores:



Pred. No.: 1.3e-71 Length: 404  
 Score: 631.00 Matches: 125  
 Percent Similarity: 92.59% Conservative: 0  
 Best Local Similarity: 92.59% Mismatches: 4  
 Query Match: 59.36% Indels: 6  
 Gaps: 1

US-09-674-266A-181 (1-206) x US-09-643-597-282 (1-404)

QY 13 PROHISPROSERARGARGLEUTHRGINGLYARGTPVALARGLYSSERARGVALAAMET 32  
 DB 16 CCGCATCTCANNCCCGACTCACACAAGCC-----AGAGTNGCATG 57  
 QY 33 GLULYSIIIPROVALSERIALPHELEULEUVALALALEUSERTYRTHRLAALARG 52  
 DB 58 GAGAAATTCAGTGCAGCATCTTGCTCTGTGCGCCCTCTCTACACTGCGCCAGA 117  
 QY 53 ASPTRTHRVALLYSERPROGLYALALYLSASPTHLYSASPSERARGPROLYLEUPRO 72  
 DB 118 GATACCACAGTCMAACCTGAGCCAAAGACACAAGAGCATCTGACCCAAACTGCC 177  
 QY 73 GLINTHLEUSERARGLYTRPGLYASPGINLEULEITRPTHRLINTHYRGLUGUALA 92  
 DB 178 CANACCCCTCCAGAGGTGGGTGACCAACTCATCTGACATCATATGAAGAAGCT 237  
 QY 93 LEUTRYLVSERLYSRHSERASNLVSPROLEUMETILLEHSHISLEUASPGIUCYS 112  
 DB 238 CTRATATAATCCAGACACAGACACACACCTTGATGATTTATCATCTTGATGAGTGC 297  
 QY 113 PROHISSEGLINALLEULYSLSVALPHEALAGLUASNLGSLULEGINTLSLEUALA 132  
 DB 298 CCACACAGTCAAGCTTTAAAGAAAGTGTTCGTAAGAAATTAAGAAATCCGAATTTGGCA 357  
 QY 133 GLUGINPHEVALLEULEUSNLVALLTYRGLUTHRTHRASPLYS 147  
 DB 358 GAGCACTTGTCTCCTCAATCTGTTATGAAGAACTGACAAA 402

RESULT 10  
 US-08-916-576B-5  
 ; Sequence 5, Application US/08916576B  
 ; Patent No. 6171816  
 ; GENERAL INFORMATION:  
 ; APPLICANT: YU, GUO-LIANG  
 ; APPLICANT: DILLON, PATRICK J.  
 ; APPLICANT: EBER, REINHARD  
 ; APPLICANT: ENDRESS, GREGORY A.  
 ; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
 ; NUMBER OF SEQUENCES: 45  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
 ; STREET: 1100 NEW YORK AVENUE, SUITE 600  
 ; CITY: WASHINGTON  
 ; STATE: DC  
 ; COUNTRY: US  
 ; ZIP: 20005-3934  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/916,576B  
 ; FILING DATE:  
 ; CLASSIFICATION: 536  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 60/024,347  
 ; FILING DATE: 23-AUG-1996  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: STEFF, ERIC K.  
 ; REGISTRATION NUMBER: 36,688  
 ; REFERENCE/DOCKET NUMBER: 1488.0500001  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (202) 371-2600

TELEFAX: (202) 371-2540  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 732 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: double  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 49..546  
 ; FEATURE:  
 ; NAME/KEY: mat.peptide  
 ; LOCATION: 118..546  
 ; FEATURE:  
 ; NAME/KEY: sig.peptide  
 ; LOCATION: 49..117  
 ; US-08-916-576B-5

# Alignment Scores:

Pred. No.: 1.65e-61 Length: 732  
 Score: 555.00 Matches: 108  
 Percent Similarity: 81.44% Conservative: 28  
 Best Local Similarity: 64.67% Mismatches: 19  
 Query Match: 52.21% Indels: 12  
 Gaps: 4

US-09-674-266A-181 (1-206) x US-08-916-576B-5 (1-732)

QY 41 LEULEUVALALALEUSERTYRTHRLAALARGSPTRTHRVALLYSERPROGLYALA 60  
 DB 79 CTCTTACTGCTCACAGCTTTCTTCCAACTTGCC-----ATTGCAATATAA----- 123  
 QY 61 LYSLSASPTHLYSASPSERARGPROLYSLEUPROGLINTHLEUSERARGLYTRPGLY 80  
 DB 124 -----AAGCAAGAGGCT-----CTCAGACACTCAAGAGATGGGGA 165  
 QY 81 ASPEGLINLETRPTHRLINTHYRGLUGUALALEUTRYLVSERLYSRHSERASN 100  
 DB 166 GATGACATCACTTGCGGTGACCACTTATGAAGAGTCTCTTTATGCTCAAAAAGTTAAG 225  
 QY 101 LYSERLEUMETILLEHSHISLEUASPGIUCYSERPROHISSEGLINALLEULYSLS 120  
 DB 226 AAGCATTTATGTTATTCATCACTGAGATTTGCAATACCTCAAGCACTTAAGAAA 285  
 QY 121 VALPHEALAGLUASNLGSLULEGINTLSLEUALAGLU---GLINPHEVALLEULEASN 139  
 DB 286 GTATTTCGCCAAATGAAGAAATGACAGAAATGCTCAGAAATGATCAATCATCTTAAC 345  
 QY 140 LEUVALTYRGLUTHRTHRASPLYSLSLEUSERPROASPGIUCYINTRYVALPROARGILE 159  
 DB 346 CTTATGCGATGAACCACTGATTAAGAAATTTATCACTTATGCGCAATATGCTCAGATC 405  
 QY 160 METPHEVALASPROSERLEUTHRVALLARGALASPILETTRHGLATGYRSEASARG 179  
 DB 406 ATGTTTGTACACCTTCTTTAAGAGTTAGAGCTACATFAGTGGAAATATCTCAACAGA 465  
 QY 180 LEUTRYALATYRGLUPROALASPTHLALALEULEUSPASMETLYLSVALALEU 199  
 DB 466 TTGTACACATATGAGCTCGGATTTACCCCTATTGATGAGAAACATGAGAAAGCATTA 525  
 QY 200 LYSLEULEUSRTHRGLILEU 206  
 DB 526 AGACTTATTCAGTCAGACTA 546

RESULT 11  
 US-08-916-576B-36  
 ; Sequence 36, Application US/08916576B  
 ; Patent No. 6171816  
 ; GENERAL INFORMATION:  
 ; APPLICANT: YU, GUO-LIANG  
 ; APPLICANT: DILLON, PATRICK J.  
 ; APPLICANT: EBER, REINHARD



Db 226 AGAAGCTTATATNAATCAAGACAACAAACCTTGATGATATTCATCACTG 285  
Qy 110 aspgLucyProHisSerGlnAla--LeuLysLysValPheAlaGluAsnLysGluIleG 129  
Db 286 GGTGAGTGCCTCCACACAGTTCAAGTTTAAAGAAAGTGTTCGCTTGC-----T 330  
Qy 129 InLysLeu-----AlaGluGlnPheVal-LeuLeuAsnLeu-ValTyr 142  
Db 331 GGAATTATANGAANTCCGNAATTTGGGNGAGCAGTCTTGTNCCCTNAATTTGGCTTTT 390  
Qy 142 rgluThrThrsAspLysHisLeuSerProAspGlyGlnTyrValProArgIleMetPheVal 162  
Db 391 GGAACAATGGGCAACACCTTTTGTGTGNTGNCNATTTTCCCGGNTTTTTCCTTTT 450  
Qy 162 lAspPro 164  
Db 451 TGGCCCTC 457

RESULT 13  
US-08-916-576B-10  
; Sequence 10, Application US/08916576B  
; Patent No. 6171816  
; GENERAL INFORMATION:  
; APPLICANT: YU, GUO-LIANG  
; APPLICANT: DILLON, PATRICK J.  
; APPLICANT: EBNER, REINHARD  
; APPLICANT: ENDRESS, GREGORY A.  
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
; NUMBER OF SEQUENCES: 45  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVENUE, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: US  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/916,576B  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/024,347  
; FILING DATE: 23-AUG-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: STEFFE, ERIC K.  
; REGISTRATION NUMBER: 36,688  
; REFERENCE/DOCKET NUMBER: 1488.0500001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 371-2600  
; TELEFAX: (202) 371-2540  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 506 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; US-08-916-576B-10

Alignment Scores:  
Pred. No.: 5,63e-39 Length: 506  
Score: 376.50 Matches: 79  
Percent Similarity: 90.00% Conservative: 2  
Best Local Similarity: 87.78% Mismatches: 6  
Query Match: 35.42% Indels: 3  
Gaps: 1  
US-09-674-266a-181 (1-206) x US-08-916-576B-10 (1-506)

Qy 97 LysThrSerAsnLysProLeuMetIleHisHisLeuAspGlyLucyProHisSerGln 116  
Db 14 AAGACAGGCAACAACCCCTTGATGATATTCATCAATGATGAGTGGCCACACACTCAA 73  
Qy 117 AlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheVal 136  
Db 74 GCTTTAAACAAGCTGTTCTGCTGAATTAAGAAATCCAGAAATTTGGCAGACAGTTTGTG 133  
Qy 137 LeuLeuAsnLeuValTyrGluThrThr-AspLysHisLeuSerProAspGlyGlnTyrVal 156  
Db 134 CTCCTCAATCTGCTTATGTAACAACACTGCAACAACACTTTCTCGATGCGCAGATGT 193  
Qy 156 lProArgIleMetPheValAspProSerLeu-ThrValArgAlaAspIleThGlyArg- 175  
Db 194 NCCAGAGTTATGTTGTTGACCACTTCCTGACAGTATGAGCCGATATCAGTGGAGGA 253  
Qy 176 --TyrSerAsnArgLeuTyrAlaTyr 183  
Db 254 TATTTCAACCGTNNCTTATGCTTAC 279

RESULT 14  
US-08-916-576B-37  
; Sequence 37, Application US/08916576B  
; Patent No. 6171816  
; GENERAL INFORMATION:  
; APPLICANT: YU, GUO-LIANG  
; APPLICANT: DILLON, PATRICK J.  
; APPLICANT: EBNER, REINHARD  
; APPLICANT: ENDRESS, GREGORY A.  
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS  
; NUMBER OF SEQUENCES: 45  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVENUE, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: US  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/916,576B  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/024,347  
; FILING DATE: 23-AUG-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: STEFFE, ERIC K.  
; REGISTRATION NUMBER: 36,688  
; REFERENCE/DOCKET NUMBER: 1488.0500001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 371-2600  
; TELEFAX: (202) 371-2540  
; INFORMATION FOR SEQ ID NO: 37:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 158 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; US-08-916-576B-37

Alignment Scores:  
Pred. No.: 5,26e-24 Length: 158  
Score: 253.00 Matches: 51  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 23.80% Indels: 0

DB: 4 Gaps: 0

US-09-674-266a-181 (1-206) x US-08-916-576B-37 (1-158)

OY 15 ProseraArgyleThrlnglYArgrPvalArglySerArValAlamcglulys 34  
 |||||||

DB 6 CCTAGCCCCCAGCTCACCAAGGAGGTGGGTGAGGAATCCAGATGCGCCATGGAGAAA 65

OY 35 lIeProvalSerAlaphleuleuleuValAlaleuSerTyThrlleuAlaArgAspThr 54  
 |||||||

DB 66 ATTCAGAGTGCAGCATCTGCTCTGCGCCCTCTCTACACTCTGCGCCAGAGATACC 125

OY 55 ThrlValysProglYAlaLysLysAspThrlys 65  
 |||||||

DB 126 ACAGTCAACCTGGAGCCAAAGACACAAAG 158

RESULT 15

US-09-030-607-209

Sequence 209, Application US/09030607

Patent No. 6262245

GENERAL INFORMATION:

APPLICANT: Xu, JIANGCHUN

APPLICANT: DILLON, DAVID C.

TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO

NUMBER OF SEQUENCES: 224

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/030.607

FILING DATE: 25-FEB-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Mark, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.427C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 209:

SEQUENCE CHARACTERISTICS:

LENGTH: 159 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-030-607-209

Alignment Scores:

Pred. No.: 7.13e-24 Length: 159

Score: 252.00 Matches: 52

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 23.71% Indels: 0

DB: 4 Gaps: 0

US-09-674-266a-181 (1-206) x US-09-030-607-209 (1-159)

OY 25 ValArglysserArgValAlamcglulyslIeProvalSerAlaphleuleuleuVal 44  
 |||||||

DB 3 GTGAGGAATCCAGAGTTGCGCATGGAATAATCCAGTGCAGATCTGCTCTGCTG 62

OY 45 AlaIeuserTyThrlleuAlaArgAspThrThrlValysProglYAlaLysLysAspThr 64  
 |||||||

DB 63 GCCCTCTCTACACTCTGCGCCAGAGATACACAGTCAAACTGTGAGCCAAAAAGGACACA 122

OY 65 LysAspSerArgProLysLeuProglInThrlleuSer 76  
 |||||||

DB 123 AAGACTCTCGAGCCCAAACTGCGCCAGACCTCTCC 158

Search completed: March 13, 2003, 19:52:46

Job time : 43 secs

GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: March 13, 2003, 19:43:56 ; Search time 100 Seconds  
(without alignments)  
1445.842 Million cell updates/sec

Title: US-09-674-266a-181

Perfect score: 1063  
Sequence: 1 RLSACGTLGSGPSPHSRRLLT.....DRALLLDNKKALKLKTEL 206

Scoring table:

BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 501302 segs, 350932545 residues

Total number of hits satisfying chosen parameters: 1002604

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 0%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+.p2n.model -DEV=xlh  
-Q=/cgn2\_1/USPTO.spool/US09674266/rnatc\_06032003\_154833\_22481/app\_query.fasta\_1.391  
-DB=Published.Applications.NA -QFMT=fastap -SUFFIX=inp -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bites -START=1 -END=1 -MATRIX=blcsun62  
-TRANS=human40.ccl -LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100  
-THR\_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=200000000 -USER=US09674266.ecgn\_1\_1\_72.ecgnat\_06032003\_154833\_22481  
-NCPU=6 -ICPU=3 -NO\_XLPYX -NO\_MMAR -LARGEUDERY -NEG\_SCORES=0 -WAIT -LONGLOC  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database: Published.Applications.NA:\*\*

1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq:\*\*  
2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*\*  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*\*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*\*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*\*  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:\*\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*\*  
9: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*\*  
10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:\*\*  
11: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*\*  
12: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*\*  
13: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*\*  
14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1025	96.4	1860	9	US-09-981-353-91
2	1025	96.4	1860	10	US-09-895-652-4
3	991	93.2	875	9	US-10-025-380-1098
4	991	93.2	875	9	US-10-078-337-1

5	991	93.2	875	10	US-09-922-217-1098	Sequence 1098, Ap
6	969	91.2	564	10	US-09-998-598-64	Sequence 64, Appl
7	965	90.8	888	10	US-09-895-652-5	Sequence 5, Appl
8	964	90.7	590	9	US-10-046-935-1635	Sequence 1635, Ap
9	964	90.7	590	9	US-09-878-178-1635	Sequence 1635, Ap
10	957	90.0	554	9	US-10-046-935-1331	Sequence 1331, Ap
11	957	90.0	554	9	US-09-878-178-1331	Sequence 1331, Ap
12	946	89.0	600	9	US-10-046-935-1481	Sequence 1481, Ap
13	946	89.0	600	9	US-09-878-178-1481	Sequence 1481, Ap
14	912	85.8	543	10	US-09-792-439-1	Sequence 1, Appl
15	899	84.6	537	10	US-09-919-580-786	Sequence 786, Appl
16	876	82.4	522	9	US-10-046-935-2200	Sequence 2200, Ap
17	876	82.4	522	9	US-09-878-178-2200	Sequence 2200, Ap
18	856.5	80.6	793	10	US-09-735-705-78	Sequence 78, Appl
19	856.5	80.6	793	10	US-09-850-716-78	Sequence 78, Appl
20	856.5	80.6	793	10	US-09-897-778-78	Sequence 78, Appl
21	838	78.8	720	9	US-10-227-884-73	Sequence 73, Appl
22	838	78.8	720	9	US-10-230-163-73	Sequence 73, Appl
23	838	78.8	720	9	US-10-218-631-73	Sequence 73, Appl
24	838	78.8	720	9	US-10-230-338-73	Sequence 73, Appl
25	702	66.0	409	9	US-10-025-380-183	Sequence 183, Appl
26	702	66.0	409	10	US-09-922-217-183	Sequence 183, Appl
27	702	66.0	409	10	US-09-833-263-183	Sequence 183, Appl
28	691	65.0	580	9	US-10-046-935-1433	Sequence 1433, Ap
29	691	65.0	580	9	US-09-878-178-1433	Sequence 1433, Ap
30	686	64.5	585	9	US-10-046-935-1363	Sequence 1363, Ap
31	686	64.5	585	9	US-09-878-178-1363	Sequence 1363, Ap
32	683	64.3	401	9	US-10-025-380-32	Sequence 32, Appl
33	683	64.3	401	10	US-09-922-217-32	Sequence 32, Appl
34	683	64.3	401	10	US-09-833-263-32	Sequence 32, Appl
35	642	60.4	386	9	US-10-078-337-35	Sequence 35, Appl
36	631	59.4	404	10	US-09-735-705-282	Sequence 282, Appl
37	631	59.4	404	10	US-09-850-716-282	Sequence 282, Appl
38	631	59.4	404	10	US-09-897-778-282	Sequence 282, Appl
39	627	59.0	551	9	US-10-046-935-1231	Sequence 1231, Ap
40	627	59.0	551	9	US-09-878-178-1231	Sequence 1231, Ap
41	620	58.3	541	9	US-10-046-935-2131	Sequence 2131, Ap
42	620	58.3	541	9	US-09-878-178-2131	Sequence 2131, Ap
43	616	57.9	541	9	US-10-046-935-1771	Sequence 1771, Ap
44	616	57.9	541	9	US-09-878-178-1771	Sequence 1771, Ap
45	593	55.8	509	9	US-10-046-935-915	Sequence 915, Appl

# ALIGNMENTS

RESULT 1  
US-09-981-353-91  
: Sequence 91, Application US/09981353  
: Patent No. US20020160382A1  
: GENERAL INFORMATION:  
: APPLICANT: Lasek, Amy W.  
: APPLICANT: Jones, David A.  
: TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
: FILE REFERENCE: PA-0038 US  
: CURRENT APPLICATION NUMBER: US/09/981.353  
: CURRENT FILING DATE: 2001-10-11  
: NUMBER OF SEQ ID NOS: 194  
: SOFTWARE: PERL Program  
: SEQ ID NO 91  
: LENGTH: 1860  
: TYPE: DNA  
: ORGANISM: Homo sapiens  
: FEATURE:  
: NAME/KEY: misc\_feature  
: OTHER INFORMATION: Incyte ID NO. US20020160382A1 343502.10  
US-09-981-353-91

Alignment Scores:  
Pred. No.: 1.52e-121  
Score: 1025.00  
Percent Similarity: 98.54%  
Best Local Similarity: 98.54%  
Query Match: 96.43%  
Length: 1860  
Matches: 203  
Conservative: 0  
Mismatches: 3  
Indels: 1

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DB: 9 Gaps: 0
US-09-674-266a-181 (1-206) x US-09-981-353-91 (1-1860)
QY 1 ArgLeuSerCysAlaGlyThrLeuSerGlySerGlyProHisProSerArgArgLeuThr 20
DB 139 AGACTAGCTGCTGCTGGACACTCAGACAGCTT-GGACCGCATCTTGCCGCCACTCACA 197
QY 21 GlnGlyArgTrpValArgLysSerArgValAlaMetGlnLysIleProValSerAlaPhe 40
DB 198 CAAGCAGAGTGGGTGAGGAATCCAGAGTTGCCATGAGAAATTCACAGTCAGCATTC 257
QY 41 LeuLeuLeuValAlaLeuSerTyrrThrLeuAlaArgAspThrValLysProGlyAla 60
DB 258 TTGCTCTTGTGGCCCTCTCTACACTTGCCAGAGATACCACTCAAACTTGAGACC 317
QY 61 LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly 80
DB 318 AAAAAGACACAAAGAGACTCTGACCCCAAACTGCCAGACCTCTCCAGAGTTGGGT 377
QY 81 AspGlnLeuIleTrpThrGlnThrTyrrGlnGluAlaLeuTyrrLysSerLysThrSerAsn 100
DB 378 GACCAACTCATCTGACATCAGACATATGAAGAAGCTATATATCAACAGACAGCAGC 437
QY 101 LysProLeuMetIleIleHisLysLeuAspGluCysProHisSerGlnAlaLeuLysLys 120
DB 438 AAACCTTGATGATATTCATCTGATGAGTGGCCACACAGTCAAGCTTTAAAGAAA 497
QY 121 ValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValIleLeuAsnLeu 140
DB 498 GTGTTGCTGCAAAATTAAGAAATCCAGAAATTTGGCAGACAGTTTCTCCCTCAATCTG 557
QY 141 ValTyrrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrrValProArgIleMet 160
DB 558 GTTATGAAACAACATGACAACACCTTTCTCTGATGGCCAGATATCCCCAGATTATG 617
QY 161 PheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrrSerAsnArgLeu 180
DB 618 TTGTTGACCACTCTCTGACGTTAGAGCCGATATCAGTGAAGATATTCAAATCGCTTC 677
QY 181 TyrrAlaTyrrGluProAlaAspThrAlaLeuLeuLeuAspAsnMetLysLysAlaLeuLys 200
DB 678 TATGCTTACGAACCTGCACATACAGCTCTGTGCTTGACACATGAGAAGAGCTCTCAAG 737
QY 201 LeuLeuLysThrGluLeu 206
DB 738 TTGCTGAAGACTGAATTG 755

RESULT 2
US-09-895-652-4
; Sequence 4, Application US/09895652
; Patent No. US2002081640A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberta
; APPLICANT: Pillai, Rageswari
; TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and
; FILE REFERENCE: DEX-0211
; CURRENT APPLICATION NUMBER: US/09/895,652
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: 60/214,515
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 1860
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-895-652-4

Alignment Scores:
Pred. No.: 1,52e-121 Length: 1860
Score: 1025.00 Matches: 203

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Percent Similarity: 98.54% Conservative: 0
Best Local Similarity: 98.54% Mismatches: 3
Query Match: 96.43% Indels: 1
DB: 10 Gaps: 0
US-09-674-266a-181 (1-206) x US-09-895-652-4 (1-1860)
QY 1 ArgLeuSerCysAlaGlyThrLeuSerGlySerGlyProHisProSerArgArgLeuThr 20
DB 139 AGACTAGCTGCTGCTGGACACTCAGACAGCTT-GGACCGCATCTTGCCGCCACTCACA 197
QY 21 GlnGlyArgTrpValArgLysSerArgValAlaMetGlnLysIleProValSerAlaPhe 40
DB 198 CAAGCAGAGTGGGTGAGGAATCCAGAGTTGCCATGAGAAATTCACAGTCAGCATTC 257
QY 41 LeuLeuLeuValAlaLeuSerTyrrThrLeuAlaArgAspThrValLysProGlyAla 60
DB 258 TTGCTCTTGTGGCCCTCTCTACACTTGCCAGAGATACCACTCAAACTTGAGACC 317
QY 61 LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly 80
DB 318 AAAAAGACACAAAGAGACTCTGACCCCAAACTGCCAGACCTCTCCAGAGTTGGGT 377
QY 81 AspGlnLeuIleTrpThrGlnThrTyrrGlnGluAlaLeuTyrrLysSerLysThrSerAsn 100
DB 378 GACCAACTCATCTGACATCAGACATATGAAGAAGCTATATATCAACAGACAGCAGC 437
QY 101 LysProLeuMetIleIleHisLysLeuAspGluCysProHisSerGlnAlaLeuLysLys 120
DB 438 AAACCTTGATGATATTCATCTGATGAGTGGCCACACAGTCAAGCTTTAAAGAAA 497
QY 121 ValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValIleLeuAsnLeu 140
DB 498 GTGTTGCTGCAAAATTAAGAAATCCAGAAATTTGGCAGACAGTTTCTCCCTCAATCTG 557
QY 141 ValTyrrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrrValProArgIleMet 160
DB 558 GTTATGAAACAACATGACAACACCTTTCTCTGATGGCCAGATATCCCCAGATTATG 617
QY 161 PheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrrSerAsnArgLeu 180
DB 618 TTGTTGACCACTCTCTGACGTTAGAGCCGATATCAGTGAAGATATTCAAATCGCTTC 677
QY 181 TyrrAlaTyrrGluProAlaAspThrAlaLeuLeuLeuAspAsnMetLysLysAlaLeuLys 200
DB 678 TATGCTTACGAACCTGCACATACAGCTCTGTGCTTGACACATGAGAAGAGCTCTCAAG 737
QY 201 LeuLeuLysThrGluLeu 206
DB 738 TTGCTGAAGACTGAATTG 755

RESULT 3
US-10-025-380-1098
; Sequence 1098, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tonglong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aljun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

```

:	TITLE OF INVENTION:	OF COLON CANCER AND METHODS FOR THEIR USE
:	FILE REFERENCE:	210121.471C14
:	CURRENT APPLICATION NUMBER:	US/10/025.380
:	CURRENT FILING DATE:	2001-12-19
:	NUMBER OF SEQ ID NOS:	1129
:	SOFTWARE:	FastSeq for Windows Version 4.0
:	SEQ ID NO 1098	
:	LENGTH:	875
:	TYPE:	DNA
:	ORGANISM:	Homo sapiens
:	US-10-025-380-1098	
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Alignment Scores:		
Pred. No.:	1,1e-117	Length: 875
Score:	991.00	Matches: .193
Percent Similarity:	99.48%	Conservative: 0
Best Local Similarity:	99.48%	Mismatches: 1
Query Match:	93.23%	Indels: 0
DB:	9	Gaps: 0
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US-09-674-266A-181 (1-206) x US-10-025-380-1098 (1-875)		
OY	13	ProHisPSeSerArGATgLeUThrGlGlyARgrPrValArgLySSerArGLAlamEt 32
Db	14	CCGATTTCCTAGCGCCGCCACATCACCAAGCAGGGGTGAAGAATCCAGAGTTGCATG 73
OY	33	GIuLysIleProValSerAlaPheLeuLeuValAlalaUsEryThrLeuAlarg 52
Db	74	GAGAAATTCAGAGTGCAGCATCTTGCTGCTTGCGCCCTCCTACACTGGCCAGA 133
OY	53	AsphrrThrValIysProGlyAlaLysLysAspThrIySspSerArGrPolySLeuPro 72
Db	134	GATACCCACAGCAAAACCCTGGAGCCAAAAGAGACAAGAGACTCTGCACCCAACCTGCC 193
OY	73	GIthrLeuSerArGlyTrPGlyASPglndentlErThrghInThrTyrgLuAla 92
Db	194	CAGACCTCTCCAGAGGTGGGGGTGACCACACTATCTGGACTCAGCATATGAAGAACT 253
OY	93	LeuTyrrLySSerLyStrhSerASnLysProLeuNellElleHIShtLSLeuSPGLucys 112
Db	254	CTATATTAATTCACAAGACAGCAACAAACCCTTGATGATTAATCATCTGGATGAGTGC 313
OY	113	ProHisSerGlnAlaleuLysLysValPhealacLusnLysGluileGlnLysLeuAla 132
Db	314	CCACACAGTCAAGCTTTAAAGAAAGTCTTGCTGAAAAATAAGAAATCCAGAAATTGGCA 373
OY	133	GIuInPheValIleuLeuASnLeuValTYrcLIuThrhraSpLyshtLSLeuSerProasp 152
Db	374	GAGCAGTTTGTCTCCTCCTCAATCTGTTATTAAGAACATGCACAAACCTTTCTCTGAT 433
OY	153	GIyInTyrrValProArgIleMetPheValasPreSerLeuthrValArgAlaaspIle 172
Db	434	GGCCAGTATGCCCCAGAGTATATGTTGTTGACCACTCTCGACAGTTAAGCGGATATC 493
OY	173	ThrcLylarGtyrSerASNargLeuTyrrAlaTyrlcIuProAlasprhralaleuLeu 192
Db	494	ACTGGAAGATATTCAAATTCGCTCTTAGCTTACCAACCTGCAGATACAGCTGTGCTT 553
OY	193	AspasnmetLysLysAlaleuLysLeuLeuLysThrGluLeu 206
Db	554	GACACATGAAGAAAGCTCTCAAGTCTGAGAACTGAATTG 595
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RESULT 4		
US-10-078-337-1		
Sequence 1, Application US/10078337		
Publication No. US2003002306A1		
GENERAL INFORMATION:		
APPLICANT: YU, GUO-LIANG		
DILLON, PATRICK J.		
EBNER, REINHARD		
ADDRESS, GREGORY A.		
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS		
NUMBER OF SEQUENCES: 45		

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNER, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/078,337
FILING DATE: 21-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/916,576
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: STEEFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488,0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 875 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 71..595

FEATURE:
NAME/KEY: mat_peptide
LOCATION: 131..595

FEATURE:
NAME/KEY: sig_peptide
LOCATION: 71..130

SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-078-337-1

Alignment Scores:
Pred. No.:      1 ie-117          Length:       875
Score:           991.00         Matches:     193
Percent Similarity:    99.48%        Conservative:   0
Best Local Similarity:    99.48%        Mismatches:    1
Query Match:         93.23%            Indels:        0
DB:                  9             Gaps:         0

US-09-674-266A-181 (1-206) x US-10-078-337-1 (1-875)
QY      13 ProHisProSerArgArGLeuThrGlnGIYAqrTrPValArqLySSerArvAlalaMet 32
||| |||||||
Db      14 CGAGTTCCTTAGCCCGACGCATCACCAAGAAGGGGTGAAGAAATCCACAAGTTGCCATG 73
||| |||||||

QY      33 GluLysIleProvalSeralalpheLeuleuleuVaialaleusertyrthrLeualaaarg 52
||| |||||||
Db      74 GAGAAAATTCACAGTGATGCAGCATTTCTGCTCTGTGCGCCCTCTACTACACTGTGGCCAGA 133
||| |||||||

QY      53 AspPhrThrrVallySProgLYAlalySLyAsphrlySaSpserarGrPolyLSleupro 72
||| |||||||
Db      134 GATACCACAGCCAACCTGGAGGCCAAAGAACCAAGAGACTCTCCACCCCACCAAACCTGCC 193
||| |||||||

QY      73 GlnThrLeuSeArvgLIYTpgLYASgILeultlerrPrhrngInThTyrgIUGluALA 92
||| |||||||
Db      194 CAGACCTCTCCAGAGGTGGGGGTGACCAACTACTCTGGACTCAGACATATFGAAGAAGCT 253
||| |||||||

QY      93 LeutyrLysserySrThrSerAmnLyProleumetlleileHishisIleuaSGLuCYs 112

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Db 254 CTATATTAATCCAGACAGCAACAACCCCTTGATGATTATTCATCCTGGATGAGTGC 313  
 Oy 113 ProHisSerGlnAlaLeuLysLysValPheAlaGlnAsnLysGluIleGlnLysLeuAla 132  
 Db 314 CCACACAGTCACAGCTTTAAAGAAAGCTTTGCTGAAATTAAGAAATCCAGAAATGGCA 373  
 Oy 133 GlnGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp 152  
 Db 374 GAGCAGTTTGCTCCTCATATCTGGTTTATGAACAACAGACAAACACCTTCTCCTGAT 433  
 Oy 153 GlnGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172  
 Db 434 GGCAGATATGTCCTCCAGAGTATATGTTTGTGACCATCTCTGACAGTTAGACCCATATC 493  
 Oy 173 ThrGlnArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeu 192  
 Db 494 ACTGGAAGATATTCAAATCTGCTTATGCTTACGAACCTGACAGATACACCTCTGTTGCTT 553  
 Oy 193 AspAsnMetLysLysAlaLeuLysLeuLysThrGluLeu 206  
 Db 554 GACACATGAGAGAAAGCTTCTCAAGTTGCTGAAGACTGAATTG 595

## RESULT 5

US-09-922-217-1098  
 : Sequence 1098, Application US/09922217

: Patent No. US20020076414A1

: GENERAL INFORMATION:

: APPLICANT: Xu, Jianshun

: APPLICANT: Lodes, Michael J.

: APPLICANT: Secrist, Heather

: APPLICANT: Benson, Darin R.

: APPLICANT: Meagher, Madeleine Joy

: APPLICANT: Stolk, John A.

: APPLICANT: Wang, Tonglong

: APPLICANT: Jiang, Yugu

: APPLICANT: Smith, Carole Lynn

: APPLICANT: King, Gordon E.

: APPLICANT: Wang, Aljun

: APPLICANT: Clapper, Jonathan D.

: TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

: TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

: FILE REFERENCE: 210121.471C13

: CURRENT APPLICATION NUMBER: US/09/922.217

: CURRENT FILING DATE: 2001-08-03

: NUMBER OF SEQ ID NOS: 1124

: SOFTWARE: FastSeq for Windows Version 4.0

: SEQ ID NO 1098

: LENGTH: 875

: TYPE: DNA

: ORGANISM: Homo sapiens

: US-09-922-217-1098

## Alignment Scores:

Pred. No.: 1,1e-117 Length: 875  
 Score: 991.00 Matches: 193  
 Percent Similarity: 99.48% Conservative: 0  
 Best Local Similarity: 99.48% Mismatches: 1  
 Query Match: 93.23% Indels: 0  
 DB: 10 Gaps: 0

US-09-674-266a-181 (1-206) x US-09-922-217-1098 (1-875)

Oy 13 ProHisProSerArgArgLeuThrGlnGlyArgTyrPvalArgLysSerArgValAlaMet 32  
 Db 14 CCGATTCCTAGCCGCCGCTCACACAAAGGAGTGGTGAAGAAATCCAGAGTTGCCATG 73  
 Oy 33 GlnLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArg 52  
 Db 74 GAGAAATTCAGAGTGTGACATTTCTGCTCTGTGGCCCTCTCTACACTCTGGCCAGA 133  
 Oy 53 AspThrThrValLysProGlnAlaLysLysAspThrLysAspSerArgProLysLeuPro 72  
 Db 134 GATACACAGTCACAACTGGAGCCAAAAGACACAAAGAGACTCTGACCCCAAACTGCC 193

Oy 73 GlnThrLeuSerArgGlyTyrPglYAspGlnLeuIleTyrPThrGlnThrTyrGlnGluAla 92  
 Db 194 CACACCTCTCCAGAGTGGGGTGAACCAACTATCTGAGCTCAGACATATTAAGAAAGCT 253  
 Oy 93 LeuTyrLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCys 112  
 Db 254 CTATATTAATCCAGACAGCAACAACCCCTTGATGATTATTCATCCTGGATGAGTGC 313  
 Oy 113 ProHisSerGlnAlaLeuLysLysValPheAlaGlnAsnLysGluIleGlnLysLeuAla 132  
 Db 314 CCACACAGTCACAGCTTTAAAGAAAGCTTTGCTGAAATTAAGAAATCCAGAAATGGCA 373  
 Oy 133 GlnGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp 152  
 Db 374 GAGCAGTTTGCTCCTCATATCTGGTTTATGAACAACAGACAAACACCTTCTCCTGAT 433  
 Oy 153 GlnGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172  
 Db 434 GGCAGATATGTCCTCCAGAGTATATGTTTGTGACCATCTCTGACAGTTAGACCCATATC 493  
 Oy 173 ThrGlnArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeu 192  
 Db 494 ACTGGAAGATATTCAAATCTGCTTATGCTTACGAACCTGACAGATACACCTCTGTTGCTT 553  
 Oy 193 AspAsnMetLysLysAlaLeuLysLeuLysThrGluLeu 206  
 Db 554 GACACATGAGAGAAAGCTTCTCAAGTTGCTGAAGACTGAATTG 595

## RESULT 6

US-09-998-598-64  
 : Sequence 64, Application US/09998598

: Patent No. US20020150922A1

: GENERAL INFORMATION:

: APPLICANT: Xu, Jianshun

: APPLICANT: Chenault, Ruth A.

: APPLICANT: Meagher, Madeleine Joy

: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

: TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER

: FILE REFERENCE: 210121.561

: CURRENT APPLICATION NUMBER: US/09/998,598

: CURRENT FILING DATE: 2001-11-16

: NUMBER OF SEQ ID NOS: 2606

: SOFTWARE: Corixa Invention Disclosure Database

: SEQ ID NO 64

: LENGTH: 564

: TYPE: DNA

: ORGANISM: Homo sapiens

: US-09-998-598-64

## Alignment Scores:

Pred. No.: 3.72e-115 Length: 564  
 Score: 969.00 Matches: 187  
 Percent Similarity: 99.47% Conservative: 0  
 Best Local Similarity: 99.47% Mismatches: 1  
 Query Match: 91.16% Indels: 0  
 DB: 10 Gaps: 0

US-09-674-266a-181 (1-206) x US-09-998-598-64 (1-564)

Oy 13 ProHisProSerArgArgLeuThrGlnGlyArgTyrPvalArgLysSerArgValAlaMet 32  
 Db 1 CCGATTCCTAGCCGCCGCTCACACAAAGGAGTGGTGAAGAAATTCAGAGTTGCCATG 60  
 Oy 33 GlnLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArg 52  
 Db 61 GAGAAATTCAGAGTGTGACATTTCTGCTCTGTGGCCCTCTCTACACTCTGGCCAGA 120  
 Oy 53 AspThrThrValLysProGlnAlaLysLysAspThrLysAspSerArgProLysLeuPro 72  
 Db 121 GATACACAGTCACAACTGGAGCCAAAAGACACAAAGAGACTCTGACCCCAAACTGCC 180



Qy	73	GlnThrLeuSerArgGlyTrpGlyAspGlnLeuLeuIleTrpHrgIinhTrpYrGlugLuala	92
Db	181	CAGACCCCTCCAGAGGTTGGGGAGACCACTATCTGCACTAGACATATGGAAGGCT	240
Qy	93	LeuYrIysSerLysTrpSerAsnLysProLeuMetIleLeuIshIshLeuAspGluCys	112
Db	241	CTATATTAATCCAGACACACAAACCCTTGATGCTTTTCTCATCTCTGGATGAGTGCC	300
Qy	113	ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla	132
Db	301	CCACACAGTCAAGCTTTAAAGAAAGTGTTCGTGAATAATGAAGAAATCCAGAAATTGGCA	360
Qy	133	GluGlnPheValLeuLeuAsnLeuValTyrGluThrAspLysHisLeuSerProAsp	152
Db	361	GAGCAGTTTGCCCTCCCAATCTGGTTATGAAACAACCTGACAAACCTTCTCTCGAT	420
Qy	153	GlyGlnIyrValProArgIleMetPheValAspProSerLeuTrpValArgAlaAspIle	172
Db	421	GGCCAGATATGTCGCCAGAGATTATGTTGTTGACCCATCTGTGACAGTTAAGCCGGAATTC	480
Qy	173	ThrGlyIyrTrpSerAsnArgLeuTyrAlaTyrGluProAlaSpThrAlaLeuLeuLeu	192
Db	481	ACTGGAGATATTCGAATCGTCTGTATGCTTACGAACCTGCAGATACAGCTCGTGGCTT	540
Qy	193	AspAsnMetLysLysAlaLeuLys	200
Db	541	GACACACTGAAGAAAGCTCTCAAG	564

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US-09-895-652-5
; Sequence 5, Application US/09895652
; Patent No. US20020081640A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberta
; TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and
; TITLE OF INVENTION: Treating Colon Cancer
; FILE REFERENCE: DEX-0211
; CURRENT APPLICATION NUMBER: US/09/895,652
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: 60/214,515
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 888
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-895-652-5

Alignment Scores:
Pred. No.:
Score: 2.43e-114      Length: 888
Percent Similarity: 965.00      Matches: 197
Best Local Similarity: 95.17%      Conservative: 0
Query Match: 95.17%      Mismatches: 3
DB: 90.78%      Indels: 8
      10      Gaps: 1

US-09-674-266A-181 (1-206) x US-09-895-652-5 (1-888)
OY 1 ArgLeuSerCysAlaGlyThrLeuSerClySerClyProHisProSerArgArgLeuThr 20
    |||||||
Db 20 AGACTGACGCTGCTGCGACACTCAGAAGCTT--GGACCGCATCTACCCGCCGACTACCA 78
    |||||||

OY 21 GlnGlyArgTrpValArgLysSerArgValAlaMetGluLysIleProValSerAlaPhe 40
    |||||||
Db 79 CAAAGC-----AGAGTTCGCCATTGAGAAATTCAGTGCAGCATTC 120
    |||||||

OY 41 LeuLeuValAlaLeuSerTyrThrLeu-AlaArgSPbThrValLysProGlyAl 60
    |||||||
Db 121 TTGCTCCTGTGGCCCTCTCTCTACACTCTGGCCGACAGATACCACTCAAACTGGAGC 180
    |||||||

OY 60 alyLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgLysTrpG1 80

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Db	181	CAAAAAGCACAAGGAGCTCTGCACCCAAACCTGCCCCAGACCTCTCCAGAGCTTGGCG	240
Oy	80	YASpGLneuleIeIrfpThrgIuInThryrGIuGIuIaIeuleuYrlyssSerIyThrSerAs	1000
Db	241	TGACCACTCTACTCTGGACTCCAGACATATGAAGAAGCTCTATATATAATCCAAAGAACCAA	3000
Oy	100	nlySProLeuueIleIleIeHSHIsleuAspGIuCySProHIsSerGInaIeuleuSly	1200
Db	301	CAAAACCTTGATGATATATATTCATCATCTGGATGGACTGGCCACACAGCTCAAGCTTTAAAGAA	3600
Oy	120	SvaIphealIaGIuAsnlySGIuIIeGIuIySleuAlaGIuGInphevalIeuleuAsnle	1400
Db	361	AGTGTTTGCTGAATAATAAGAAATCCAGAAATGGCAGACAGTTTCTCTCCCTCATCT	4200
Oy	140	uValIyrcIuInThrIhrIspIySHIsleuSerProAspGIyGIuIyrraIProarGIleu	1600
Db	421	GGTTATATGAACCACTGCACAAACCTTTCTCTCGATGGCCAGATATCTCCCCAGATTAT	4800
Oy	160	IphevalIaSProSerIeufThrraIArgAlaAspIIeThrcIyrrGIySerAsnArgle	1800
Db	481	GTTTCTTACCCATCTCTGACAGTTAGAGCCGATATCATCTGGAAGATATTCAAACCGTCT	5400
Oy	180	uTyraIaTyrcIuInProAlaAspThrraIaIeuleuIeuleuAspAsnMetIySlyAlaIeuly	2000
Db	541	CTATGCTTACGACACCTGCAGATACAGCTCTGCTGCTTGACACAATGAAAGAAAGCTCTCAA	6000
Oy	200	SleuIeuleuYThrGIuIeuleu 206	
Db	601	GTGGCTGAAGACTGAATTG 619	

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RESULT 8
US-10-046-935-1635
; Sequence 1635, Application US/10046935
; Patent No. US20020156011A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aijun
; APPLICANT: Stoik, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527C1
; CURRENT APPLICATION NUMBER: US/10/046,935
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1635
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-046-935-1635

Alignment Scores:
Pred. NO.:      1.75e-114          Length:      590
Score:          964.00             Matches:     188
Percent Similarity: 99.47%        Conservative: 0
Best Local Similarity: 99.47%      Mismatches:  1
Query Match:    90.69%            Indels:      0
DB:              9                 Gaps:         0

US-09-674-266A-181 (1-206) x US-10-046-935-1635 (1-590)
Oy      18 ArgLeuThrGingIyArgTrPvAlArGLySSerArVAlAlaMeGIuLySIleProVal 37
       |||||
Db       3 CGACTCACACAAGCGACGGTGGGTGAGCAAAATCCAGAGTTGCCATGAGGAATAATCCAGTC 62
Oy      38 SerAlaPeLleuLeuLeuValAlAlaLeuSerYrThrIleuAlaaAgAspTrHrThValys 57
       |||||
Db       63 TCAGCATTCCTGCCTCTTGtGGCCCTCTCCACACTCTGGCCAGAAGATTACCACAGTCAA 122
Oy      58 ProGlyAlaLysLysASPTrHrLysASpSerArGrPrOlysLeuPrOGlnTrHrLeuSerArg 77

```

```
|||||
Db 123 CCTGAGCCCAAAAGACACAAAGACACTCTGACCCAAACTGCCAGACCTCTCCAGA 182
Oy 78 GYTTPGlyAspGlnLeuIleTrpThrGlnThrTyGluGluAlaLeuTyrlsSerlys 97
Db 183 GGTGGGGGTGACCACTACTGACTGACATATGAAGAAGCTCTATATTAATCCAAAG 242
Oy 98 ThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCysProHisSerGlnAla 117
Db 243 ACAACGACAAACCCCTTGATGATATTCATCATCTTGATGATGGCCACACAGTCAGGT 302
Oy 118 LeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeu 137
Db 303 TTAAAGAAAGGTTTGCTGCAAAATCAAGAAATTCAGAAATTCGAGAGAGTTTCTCCGC 362
Oy 138 LeuAsnLeuValTyrlGlnThrThrAspLysHisLysSerProAspGluGlnTyrlValPro 157
Db 363 CCCAATCTGCTTATGAAACAACTGACAAACACCTTTCTCCGATGAGCCAGATATGCCCC 422
Oy 158 ArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrlSer 177
Db 423 AGGATTATGTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCAGTGAAGATATTCGA 482
Oy 178 AsnArgLeuTyrlAlaTyrlGluProAlaAspThrAlaLeuLeuAspAsnMetLysLys 197
Db 483 AATCGTCTATGCTTACGAACTGACAGATACAGCTCTGTTGCTTGACAAATGAAGAAA 542
Oy 198 AlaLeuLysLeuLeuLysThrGluLeu 206
Db 543 GCTCTCAAGTTCGTGACACATGAATTG 569
```

## RESULT 9

```
US-09-878-178-1635
; Sequence 1635, Application US/09878178
; Patent No. US2002017552A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527
; CURRENT APPLICATION NUMBER: US/09/878.178
; CURRENT FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 2237
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1635
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-878-178-1635
```

## Alignment Scores:

```
Pred. No.: 1.75e-114 Length: 590
Score: 964.00 Matches: 188
Percent Similarity: 99.47% Conservative: 0
Best Local Similarity: 99.47% Mismatches: 1
Query Match: 90.69% Indels: 0
DB: 9 Gaps: 0
```

US-09-674-266a-181 (1-206) x US-09-878-178-1635 (1-590)

```
Oy 18 ArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMetGluLysIleProVal 37
Db 3 CGAGTCACACAAAGGAGGTGGGTGGAATTCACAGTTGCCATGAGAAATTTCCAGG 62
Oy 38 SerAlaPheLeuLeuLeuValAlaLeuSerTyrlThrLeuAlaArgAspThrThrValLys 57
Db 63 TCAGCATCTGCTCTGCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 122
Oy 58 ProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArg 77
Db 123 CCTGGAGCCCAAAAGACACAAAGACACTCTGACCCAAACTGCCAGACCTCTCCAGA 182
```

```
Oy 78 GYTTPGlyAspGlnLeuIleTrpThrGlnThrTyGluGluAlaLeuTyrlsSerlys 97
Db 183 GGTGGGGGTGACCACTACTGACTGACATATGAAGAAGCTCTATATTAATCCAAAG 242
Oy 98 ThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCysProHisSerGlnAla 117
Db 243 ACAACGACAAACCCCTTGATGATATTCATCATCTTGATGATGGCCACACAGTCAGGT 302
Oy 118 LeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeu 137
Db 303 TTAAAGAAAGGTTTGCTGCAAAATCAAGAAATTCAGAAATTCGAGAGAGTTTCTCCGC 362
Oy 138 LeuAsnLeuValTyrlGlnThrThrAspLysHisLysSerProAspGluGlnTyrlValPro 157
Db 363 CCCAATCTGCTTATGAAACAACTGACAAACACCTTTCTCCGATGAGCCAGATATGCCCC 422
Oy 158 ArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrlSer 177
Db 423 AGGATTATGTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCAGTGAAGATATTCGA 482
Oy 178 AsnArgLeuTyrlAlaTyrlGluProAlaAspThrAlaLeuLeuAspAsnMetLysLys 197
Db 483 AATCGTCTATGCTTACGAACTGACAGATACAGCTCTGTTGCTTGACAAATGAAGAAA 542
Oy 198 AlaLeuLysLeuLeuLysThrGluLeu 206
Db 543 GCTCTCAAGTTCGTGACACATGAATTG 569
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## RESULT 10

```
US-10-046-935-1331
; Sequence 1331, Application US/10046935
; Patent No. US2002015601A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aijun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527C1
; CURRENT APPLICATION NUMBER: US/10/046.935
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1331
; LENGTH: 554
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-046-935-1331
```

## Alignment Scores:

```
Pred. No.: 1.25e-113 Length: 554
Score: 957.00 Matches: 184
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 90.03% Indels: 0
DB: 9 Gaps: 0
```

US-09-674-266a-181 (1-206) x US-10-046-935-1331 (1-554)

```
Oy 13 ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet 32
Db 1 CCGCATCTCTAGCCGCCGACTCTCACACAGGACAGGTGGGTAGAGAAATTCAGAGTTGCCATG 60
Oy 33 GluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrlThrLeuAlaArg 52
Db 61 GAGAAATTCACAGTGTACACATCTTGCTCTGTTGGCCCTCTCTCTCTCTCTCTCTCTCT 120
Oy 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
Db 121 GATACCACAGTCAAACTGAGCCCAAAAGACACAAAGACTCTCTGACCCAAACTGCCCC 180
```

```

OY 73 GlnThrLeuSerArgIlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrgluAla 92
    |||||||
DB 181 CAGACCCCTCTCCAGAGTTGGGTGACCACTCATCTGACATCATATGAGAAGCT 240
OY 93 LeuTyrlsSerLysThrSerAnlysProLeuMetIleIleHisHisLeuAspGluCys 112
    |||||||
DB 241 CTATATTAATCCAGACCAAGCAAAACCTTGATGATTAATCATCACTTGATGATGTC 300
OY 113 ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla 132
    |||||||
DB 301 CCACACAGTCAGCTTTAAAGAAAGCTTGTCTGAAATAAAGAAATCCAGAAATGGCA 360
OY 133 GluGlnPheValLeuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAsp 152
    |||||||
DB 361 GAGCAGTTTGTCTCTCATCTGTTTATGAAACACAGTGAACACCTTCTCTGAT 420
OY 153 GlyGlnTyValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
    |||||||
DB 421 GGCACGATGTCCTCCAGATTAATGTTGTGACCCATCTCTGACAGTTAGCCGATATC 480
OY 173 ThrGlyArgTySerAsnArgLeuTyraIaTyrgluProAlaAspThrAlaLeuLeu 192
    |||||||
DB 481 ACTGGAAGATATTCAATCGTCTCTATGCTTACGAACCTGACAGATACAGCTGTGCTT 540
OY 193 AspAsnMetLys 196
    |||||||
DB 541 GACACATGAG 552

```

```

RESULT 11
US-09-878-178-1331
: Sequence 1331, Application US/09878178
: Patent No. US20020177552A1
: GENERAL INFORMATION:
: APPLICANT: Jiang, Yugu
: APPLICANT: Harlocker, Susan L.
: APPLICANT: Secretist, Heather
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
: FILE REFERENCE: 210121.527
: CURRENT APPLICATION NUMBER: US/09/878,178
: CURRENT FILING DATE: 2001-06-08
: NUMBER OF SEQ ID NOS: 2237
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1331
: LENGTH: 534
: TYPE: DNA
: ORGANISM: Homo sapien
US-09-878-178-1331

```

```

Alignment Scores:
Pred. No.: 1.25e-113 Length: 554
Score: 957.00 Matches: 184
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 90.03% Indels: 0
DB: 9 Gaps: 0

```

```

US-09-674-266a-181 (1-206) x US-09-878-178-1331 (1-524)
OY 13 ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet 32
    |||||||
DB 1 CCGCATCTTAGCGCGGCGATCCACACAGGAGGTGGTGGGAAATCCAGAGTTGCATG 60
OY 33 GluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrlThrLeuAlaArg 52
    |||||||
DB 61 GAGAAATTCAGAGTCAGCATCTTGTCCTGTCCTGACCTCTCTACACTCGGCGACA 120
OY 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
    |||||||
DB 121 GATACACAGATCAAACTCGAGCCAAAGGACACAAAGAGACTCTGACCCAACTGCC 180
OY 73 GlnThrLeuSerArgIlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrgluAla 92

```

```

DB 181 CAGACCCCTCTCCAGAGTTGGGTGACCACTCATCTGACATCATATGAGAAGCT 240
OY 93 LeuTyrlsSerLysThrSerAnlysProLeuMetIleIleHisHisLeuAspGluCys 112
    |||||||
DB 241 CTATATTAATCCAGACCAAGCAAAACCTTGATGATTAATCATCACTTGATGATGTC 300
OY 113 ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla 132
    |||||||
DB 301 CCACACAGTCAGCTTTAAAGAAAGCTTGTCTGAAATAAAGAAATCCAGAAATGGCA 360
OY 133 GluGlnPheValLeuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAsp 152
    |||||||
DB 361 GAGCAGTTTGTCTCTCATCTGTTTATGAAACACAGTGAACACCTTCTCTGAT 420
OY 153 GlyGlnTyValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
    |||||||
DB 421 GGCACGATGTCCTCCAGATTAATGTTGTGACCCATCTCTGACAGTTAGCCGATATC 480
OY 173 ThrGlyArgTySerAsnArgLeuTyraIaTyrgluProAlaAspThrAlaLeuLeu 192
    |||||||
DB 481 ACTGGAAGATATTCAATCGTCTCTATGCTTACGAACCTGACAGATACAGCTGTGCTT 540
OY 193 AspAsnMetLys 196
    |||||||
DB 541 GACACATGAG 552

```

```

RESULT 12
US-10-046-935-1481
: Sequence 1481, Application US/10046935
: Patent No. US2002015601A1
: GENERAL INFORMATION:
: APPLICANT: Jiang, Yugu
: APPLICANT: Harlocker, Susan L.
: APPLICANT: Secretist, Heather
: APPLICANT: Wang, Aljun
: APPLICANT: Stolk, John A.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
: FILE REFERENCE: 210121.527C1
: CURRENT APPLICATION NUMBER: US/10/046,935
: CURRENT FILING DATE: 2002-01-15
: NUMBER OF SEQ ID NOS: 2239
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1481
: LENGTH: 600
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: 581
: OTHER INFORMATION: n = A,T,C or G
US-10-046-935-1481

```

```

Alignment Scores:
Pred. No.: 3.65e-112 Length: 600
Score: 946.00 Matches: 186
Percent Similarity: 96.89% Conservative: 1
Best Local Similarity: 96.37% Mismatches: 0
Query Match: 88.99% Indels: 6
DB: 9 Gaps: 1

```

```

US-09-674-266a-181 (1-206) x US-10-046-935-1481 (1-600)
OY 14 HisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMetGlu 33
    |||||||
DB 3 CATCTAGACCGCGGACTACACAAAGC-----AGAGTTGCATGAG 44
OY 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrlThrLeuAlaArgAsp 53
    |||||||
DB 45 AAATTCAGAGTCAGCATCTTGTCCTGTCCTGACCTCTCTACACTCGGCGAGAT 104
OY 54 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73

```

Db	105	ACCACAGTCAAACTGGAGCCAAAAGACACCAAGAGACTCTGCACCCAAACTGCCAG	166
QY	74	ThrlenuSerArgGlyTrrPGlyAspGlnLeuIleTrrThrGlnThrTyrgLugLualaleu	93
Db	165	ACCCCTCCAGAGGTGGGGGAGCAACACTCATCTGCAGCTAGACATATGAAGAAGCTCTA	224
QY	94	TyrltysSerLysThrSerAsnLysProLeuMetLleIleHSHSLenAspGluCysPro	113
Db	225	TATTAATTCACAGACAAACCAAAACCCCTTGATGTATTCATCATCCTGGATGAGCTGCCA	284
QY	114	HisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGlu	133
Db	285	CACAGCTCAAGCTTTAAAGAAAGTTTGGCTGAAATTAAGAAATTCAGAAATTTGGCAGAG	344
QY	134	GlnPheValLeuLeuAsnLeuValTyrgLluthrThrAspLysHisLeuSerProAspGly	153
Db	345	CAGTTTGTCCTCCATCTGCTGTTATGAACAACATCAGCAAAACACCTTCTCCGATGGC	404
QY	154	GlnTyrrValProArgIleMetPheValAspProSerLeuthrValArgAlaAspIleThr	173
Db	405	CAGATATGCCCCAGAGATTATGTTGTGGACCCATCTCTGACAGTTPAAGCCGATATCACT	464
QY	174	GlyArgGlySerAsnArgLeuTyrrAlaTyrgLluproAlaAspThrAlaLeuLeuLeuAsp	193
Db	465	GGAAGATATTCAAATCGTCTCTAAGCTTACCAACCTCAGATACAGCTCTGTGCTTGAC	524
QY	194	AsnMetLysLysAlaLeuLysLeuLeuLysThrLleuLeu	206
Db	525	AACATGAGAAAGCTCTCAATGCTCTAAGACTGAATAATT	563

```

RESULT 13
US-09-878-178-1481
: Sequence 1481, Application US/09878178
: Patent No. US20020177552A1
: GENERAL INFORMATION:
: APPLICANT: Jiang, Yugu
: APPLICANT: Harlocker, Susan L.
: APPLICANT: Secrist, Heather
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
: FILE REFERENCE: 210121, 527
: CURRENT APPLICATION NUMBER: US/09/878, 178
: CURRENT FILING DATE: 2001-06-08
: NUMBER OF SEQ. ID NOS.: 2237
: SOFTWARE: Fast-Seq for Windows Version 4.0
: SEQ. ID NO. 1481
: LENGTH: 600
: TYPE: DNA
: ORGANISM: Homo sapien
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(600)
: OTHER INFORMATION: n = A,T,C or G
US-09-878-178-1481

```

Alignment Scores:	
Pred. No.:	3,65e-112
Score:	946.00
Percent Similarity:	96.89%
Best Local Similarity:	96.37%
Query Match:	88.99%
DB:	9
	Gaps: 1
	Matches: 600
	Conservative: 186
	Mismatches: 0
	Indels: 6

US-09-674-266A-181 (1-206) x US-09-878-178-1481 (1-600)

0y	14	His	Pro	Se	Ar	G	A	G	L	E	T	H	G	I	G	I	A	R	G	r	P	V	A	L	G	S	S	e	A	r	V	a	L	a	m	e	t	i	u	33														
Db	3	C	A	T	C	T	A	G	C	G	C	G	C	A	C	T	C	A	C	A	A	G	G	-----																														
0y	34	L	y	S	i	e	r	P	r	o	v	a	L	S	e	r	i	a	P	h	e	l	e	u	L	e	u	L	e	u	V	a	L	a	L	e	S	e	r	T	r	y	I	n	L	e	a	I	a	r	g	S	p	53
Db	45	A	A	A	A	T	T	C	A	G	T	C	A	G	A	T	T	T	T	C	T	C	T	C	T	T	T	T	T	G	G	C	C	C	T	C	T	C	A	C	A	C	T	G	G	C	A	G	A	A	T	100		

QY	54	ThrThrValLysProGlyAlaLysLysAspThrLysSperArgProLysLeuProGln	73
Db	105	ACCAACACTCAACCTGGAGCCAAAAAGACACAAAGACTCTGACCCAAACTGCCAG	164
QY	74	ThrLeuSerArgGlyTyrGlyAspGlnLeuLeuIleThrPheGlnThrTyrGlnGluAlaLeu	93
Db	165	ACCCCTCCACAGAGGTTGGGGAGCAACCACTATCTGGACTCAGCATATGTGAAGAAGCTCTA	224
QY	94	TyrLysSerLysThrSerAsnLysProLeuMetLeuIleHisHisLeuAspGluCysPro	113
Db	225	TATTAATCCACAGACACAAACCAACCTTGATGATTATTATCACTCTGGATGAGTGGCCA	284
QY	114	HisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGlu	133
Db	285	CACAGCTCAAGCTTAAAGAAAGTGTGGTGAATAATGAAGAAATCCGAAATTTGGCAGAG	344
QY	134	GlnPheValLeuLeuAsnLeuValTyrGlnIleThrAspLysHisLeuSerProAspGly	153
Db	345	CAGTTTCTCCCTCCGATCTGGTGTATGAACAACCTCAACAACCTTTCTCCGATGGC	404
QY	154	GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr	173
Db	405	CAGATATGTCGCCAGAGATTATGTGTGTGGACCCACTCTGCACAGTTAAAGCCGATACT	464
QY	174	GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAsp	193
Db	465	GGAAGATATTCAAATCCCTCTCTATAGCTTAGGAACCTCAGATACAGCTCTGTGGCTTGAC	524
QY	194	AsnMetLysLysAlaLeuLysLeuLeuLysThrGlnLeu	206
Db	525	AACATGAAGAAGCTCTCAAGTGTCTTAAGACTGAAATTT	563

```

RESULT 14
US-09-792-439-1
: Sequence 1, Application US/09792439
: Patent No. US20020111303A1
: GENERAL INFORMATION:
:
: APPLICANT: Boyd, Robert Simon
: APPLICANT: Stamps, Alasdair Craig
: APPLICANT: Terrett, Jonathan Alexander
: APPLICANT: Tyson, Kerry Louise
:
: TITLE OF INVENTION: Diagnostic and Therapeutic Methods
:
: FILE REFERENCE: 2543-1-005N
:
: CURRENT APPLICATION NUMBER: US/09/792,439
: CURRENT FILING DATE: 2001-02-23
: PRIOR APPLICATION NUMBER: GB 0004576.5
: PRIOR FILING DATE: 2000-02-25
:
: NUMBER OF SEQ ID NOS: 8
:
: SOFTWARE: FastSeq for Windows Version 4.0
:
: SEQ ID NO 1
:
: LENGTH: 343
:
: TYPE: DNA
:
: ORGANISM: human
:
: US-09-792-439-1

```

Alignment Scores:	
Pred. No.:	7.22e-108
Length:	543
Score:	912.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	85.79%
DB:	10
Gaps:	0
Indels:	0
Mismatches:	0
Conservative:	178
Matches:	0

US-09-674-266A-181 (1-206) x US-09-792-439-1 (1-543)

Qy	29	ArgAlaIlaMetGluLysIleProValSerLaphenuleuLeuValAlaLeuSerTyr	48
Db	2	AGAGTTCGCATGGAGAAATCCACGTGTACACATCTTGGCTCTGGCCCTCTCTAC	61
Qy	49	ThrLeuAlaIaIaGAspThrThrValLysProGluValAlaLysAspThrLysAspSerArg	68
Db	62	ACTCTGGCCAGAGTATACCACAGTCAAAACCTGGACCCAAAAAGGACACAAAGACCTTCGA	120

OY	69	ProLysLeuProGlnThrLeuSerArgLYTfrcGLYAspGlnLeuIleerpprHnThr	88
Db	122	CCCAAACTGCCCCAGACCCTCTCCAGAGGTTGGGGTbACCACACTCATCTGGACTCGACAC	181
OY	89	TYrGlnGlnAlaLeuTYrLysSerLysThrSerAsnLysProLeuMetIleIleHisHis	108
Db	182	TATGAGAAGCTCTATATATAATCCAAAGACAAGCAAAACCTTGATGATATTTCAATCAC	241
OY	109	LeuAspGluCysProHisSerGlnAlaLeuLysLysValPhealactbAsnLysGluIle	128
Db	242	TTTGATGAGTCCCCACACAGCAAGCTTTAAAGAAAGCTTTCTCGAAAAATAAGAAGATC	301
OY	129	GlnLysLeuAlaGlnGlnPheValLeuLeuAsnMetValTYrGluThrThrAspLysHis	148
Db	302	CAGAAATTTGGCAGAGCGAGTTGTCTCTCAATCGTATTATAGAAACACTGCACAAACAC	361
OY	149	LeuSerProAspGlyGlnTYrValProArgIleMetPheValAspProSerLeuThrVal	168
Db	362	CTTCTCTCTGATGGCCAGTATGTGCCAGAGTTATATTGTGTTCACCCATCTCGACAGTT	421
OY	169	ArgAlaAspIleThrGlyArgTYrSerAsnArgLeuTYrAlaTYrGluProAlaAspThr	188
Db	422	AGACCCGATATCACTGGAGACATATTCACACCGTCTATCTTACCTTACACCAACTCGCAGATACA	481
OY	189	AlaLeuLeuLeuAspAsnMetLysLysAlaLeuLysLeuLeuLysThrGlnLeu	206
Db	482	GCTCTGTGGCTTGACAACCTTAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTGG	535

Db	123	GATACACAGTCAAAACCTGGAGCCAAAAGAGACAAAGAGCTCTGAGCCAAACTGCC	182
Qy	73	GlnThrIeuSerArgGlyTTPGlyAspGlnIleuIleTrpThrGlnThrTYrGluGluAla	92
Db	183	CAGACCCCTCTCAAGAGGTGGGGAGACCAACTACTTCGACCTAGACATATGAAGAAGCT	242
Qy	93	LeuTYrIysSerLysThrSerAsnLysProIleuMetIleIleHisIleAspGluCys	112
Db	243	CTATATTAATCCAGACAGACAGCAAAACCTTGATGATTTATCTATCTAGCTGGATGAAGTGC	302
Qy	113	ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla	132
Db	303	CCACACAGTCAACGCTTTAAAGAAAGCTGTTCGTAATAATGAAGAAATCCAGAAATTTGGCA	362
Qy	133	GluGlnPheValIleuLysAsnLeuValTYrGlnThrPheAspLysHisIleuSerProAsp	152
Db	363	GAGCAGTTTGCTTCCTCAACTCTGTGTTATGAAGAACACTGACAAACCTTTCTCCGAT	422
Qy	153	GlyGlnTYrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle	172
Db	423	GGCCAGTATGCCCCAGAGATTATGTTGTTGACCCATCTCGACAGTTAGACCGGATATC	482
Qy	173	ThrGlyArgTYrSerAsnArgLeuTYrAlaTYrGluProAlaAspThrAlaLeu	190
Db	483	ACTGGAAATATTTCAAAATCGCTCTATGCTTACAAACCTCGAGATACAGCTGG	536

